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CLASSIFICATION

CLASS Q
SCIENCE

PRELIMINARY

JULY 1, 1905

WASHINGTON
GOVERNMENT PRINTING OFFICE
1905

Library Science

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Library

PREFATORY NOTE

The schedules here printed represent the present arrangement of books and pamphlets on the shelves at the Library of Congress in the section devoted to pure science. During the recataloguing, which is now in progress, the scheme will be revised and changes will be made, wherever necessary, before final publication.

The general sequence of form divisions and the order of the country subdivisions are approximately those adopted throughout the Library.

In the general plan for the reclassification of the Library mathematical and physical geography, anthropology, and ethnography are included in section G, and are, therefore, not provided for here. Also, various special topics, of interest chiefly in connection with applied science, are placed next to the technical literature to which they are related in R, S, T, U, and V.

In arranging the sequence of subjects various published schemes of classification have been consulted and used freely, notably the schedules of the International catalogue of scientific literature. The undersigned is directly responsible for the classes Q to QE, inclusive, and for the preliminary revision of the rest of the section. The classification of geology, mineralogy, and petrology was planned in cooperation with Mr. F. B. Weeks, now librarian of the U. S. Geological Survey, and has been adopted in a modified form in the library of the Survey. Mr. J. C. Bay arranged the original schedules for QH, QL to QR, inclusive. The QK scheme has been prepared mainly by Mr. S. C. Stuntz, and is adapted from Trelease's classification of botanical literature. The entire work has of course had the advice and criticism of the chief classifier, Mr. Martel.

J. DAVID THOMPSON

Chief, Division of Documents,

In Charge, Science Section

HERBERT PUTNAM

Librarian of Congress

Washington, July 1, 1905

SYNOPSIS

Science (general)	Q
Mathematics	QA
Analytic mechanics	802-935
Astronomy	QB
Geodesy	281-338
Physics	QC
Weights and measures	81-114
Experimental mechanics	122-168
Terrestrial magnetism and meteorology	801-999
Chemistry	QD
Crystallography	901-999
Geology	QE
Mineralogy	351-399
Petrology	421-499
Paleontology	701-995
Natural history	QH
Microscopy	201-277
General biology	301-671
Botany	QK
Zoology	QL
Human anatomy	QM
Physiology	QP
Experimental psychology	351-499
Bacteriology	QR

Preliminary
July 1, 1905

LIBRARY OF CONGRESS

CLASSIFICATION

CLASS Q: SCIENCE (GENERAL)

CLASS Q
SCIENCE (GENERAL)

PERIODICALS (by language).

- 1 English.
- 2 French.
- 3 German.
- 4 Other.

9 YEARBOOKS.

SOCIETIES (by countries).

America.

- 11 United States.
- 21 Canada.
- 23 Mexico.
- 25 Central America.
- 29 West Indies.
- 33 South America.

Europe.

- 41 Great Britain.
- 44 Austria-Hungary.
- 46 France.
- 49 Germany.
- 52 Greece.
- 54 Italy.
- Netherlands.
- 56 Belgium.
- 57 Holland.
- 60 Russia.
- Scandinavia.
- 62 Denmark.
- 63 Norway.
- 64 Sweden.
- 65 Spain and Portugal.
- 67 Switzerland.
- 69 Turkey and the Balkan States.

Asia.

- 72 China.
- 73 India.
- 74 Indo-China.
- 75 Indonesia.
- 77 Japan.

SOCIETIES (by countries)—Continued.

Africa.

- 85 British Africa.
- 87 Egypt.
- 89 French Africa.
- 91 Other.
- 93 Australia.
- 99 Pacific.

101 Congresses (International and general only).

113 COLLECTIONS.

115 VOYAGES AND EXPEDITIONS.

See also G150-420, Voyages (of geographical discovery and exploration); QH11, Naturalists' voyages; QK5, Botanical results; QL5, Zoological results.

116 Handbooks for Scientific Expeditions.

121 ENCYCLOPEDIAS.

123 Dictionaries.

HISTORY.

125 General.

127 Local (by countries, alphabetically).

BIOGRAPHY.

See also QA28-29, Mathematicians; QB35-36, Astronomers; QC15-16, Physicists; QC514-515, Electricians; QC805, Meteorologists and Magneticians; QD21-22, Chemists; QE21-22, Geologists; QE361, Mineralogists; QE707, Paleontologists; QH26-31, Naturalists; QK26-31, Botanists; QL26-31, Zoologists; QM16, Anatomists; QP25-26, Physiologists; QR31, Bacteriologists.

141 Collective.

143 Individual.

145 Scientists' Directories.

EARLY WORKS BEFORE 1800.

151 Ancient.

153 Mediæval.

155 16th and 17th centuries.

157 18th century.

GENERAL WORKS SINCE 1800.

158 Comprehensive works.

E. g., Humboldt's Cosmos.

Text-books.

160 Advanced.

161 Elementary.

162 Popular works.

163 Juvenile literature.

164 Scientific recreations.

Q**SCIENCE (GENERAL)****Q**

- 171 ESSAYS, LECTURES, ADDRESSES, ETC.
- 173 Miscellaneous speculations on the universe.
- 175 PHILOSOPHY.
- 177 CLASSIFICATION OF THE SCIENCES.

181 STUDY AND TEACHING.

Outlines, syllabi, etc.

183 Laboratories, Seminaries, Institutes, etc.**INSTRUMENTS AND APPARATUS.**

See also QA71-85, Mathematical instruments; QB85-135, Astronomical instruments; QC53, Physical instruments; QD53, Chemical apparatus; QH211-219, Microscope.

- 184 Periodicals. Societies.
- 185 General works. Catalogues.
- 186 Lantern projection.

199 TABLES, FORMULÆ, POCKETBOOKS, ETC.

Science Readers for the study of foreign languages.

- 211 French.
- 213 German.
- 215 Italian.
- 219 Other.

Preliminary
July 1, 1905

LIBRARY OF CONGRESS

CLASSIFICATION

CLASS QA : MATHEMATICS

(INCLUDING ANALYTIC MECHANICS)

CLASS QA

MATHEMATICS

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 DICTIONARIES.
- 7 ESSAYS, LECTURES, ADDRESSES, ETC.
- 9 PHILOSOPHY.
- 11 STUDY AND TEACHING.
 - See also QA135-137, Arithmetic, study and teaching; QA461, Geometry, study and teaching.
- HISTORY.
- 21 General.
 - By periods.
 - 22 Ancient.
 - 23 Mediæval.
 - Modern.
 - 24 Renaissance to Newton.
 - 25 18th century.
 - 26 19th century and after.
 - 27 By countries (alphabetically).
- BIOGRAPHY OF MATHEMATICIANS.
- 28 Collective.
- 29 Individual.
- EARLY WORKS BEFORE 1800.
- 31 Greek (including translations and commentaries).
 - Euclid's Elements as school text-books of geometry in QA451.
- 32 Mediæval.
- 33 Renaissance to Newton, i. e., 16th and 17th centuries.
- 35 Newton to Euler, i. e., 18th century (general only).
- GENERAL WORKS SINCE 1800.
- 36 Encyclopædic works.
 - Text-books.
 - 37 Advanced.
 - 39 Elementary (without calculus).
- 41 Formulæ.
- 43 Problems and solutions.
 - See also QA157, 305, 309, 459, 537, 555, 809, 903.

TABLES.

- 47 General.
- 49 Multiplication.
 - Squares and cubes. Square roots and cube roots.
 - Reciprocals.
- 51 Factor tables.
- 55 Logarithms. Trigonometric tables.
- 59 Theory and use of logarithms.

INSTRUMENTS AND MACHINES.

- 71 General.
 - See also Q185, Scientific instruments and apparatus.
- 73 Slide rule.
- 75 Calculating machines.
- 77 Miscellaneous geometrical instruments.
 - See also T357, Drawing instruments.
- 81 Planimeter.
- 85 Mechanical aids in higher analysis.
- 95 **MATHEMATICAL RECREATIONS.**
- 99 Curiosa and miscellany.

ARITHMETIC.

- Text-books.
 - 101 Before 1846.
 - 103 Since 1846.
- 111 Rapid calculators and short cuts.
- 115 Addition, Subtraction, Multiplication, Division.
- 117 L. C. M., Fractions, Proportion.
- 119 Square root. Cube root.
- 135 **STUDY AND TEACHING.**
- 137 Teaching fractions.
- 141 Systems of numeration.
- 142 Miscellaneous essays.
- 145 Arithmetic and algebra.

ALGEBRA.

- Text-books.
 - 152 Elementary (up to and including binomial theorem and logarithms).
 - 154 Advanced.
- 155 **TREATISES.**
- 157 Problems and exercises.
- 161 Miscellaneous elementary topics.
 - See also QA59, Logarithms, theory and use.
- 165 Permutations. Combinations. Partitions. Distributions.
 - Including Magic squares.

- 171 **Theory of Groups.**
See also QA385, Continuous groups; QD911, Mathematical crystallography.
- Linear Substitutions.**
- 190 General.
See also QA171, Theory of groups.
- 191 Determinants.
- 192 Elimination.
- 195 Simultaneous equations.
- 201 Theory of forms. (Binary, ternary, etc.)
- Theory of Equations.**
- 211 General.
See also QA171, Theory of groups.
- 212 Roots. Symmetric functions.
- 214 General resolution of equations.
- 215 Cubic, biquadratic, and other particular equations.
- 218 Numerical solutions.
- 219 Graphic algebra.
- 221 Approximation.
- Theory of Numbers.**
- 241 General.
- 242 Divisibility. Linear congruences. Factorization.
Quadratic residues. Diophantine problems.
- 243 Quadratic forms.
- 244 Higher congruences, residues, and forms.
Algebraic numbers. Ideals.
- 245 Cyclotomy. Application of functions to arithmetic.
- 246 Distribution of primes. Special numerical functions, etc.
- 248 Foundations of arithmetic.
- 251 **Universal Algebra.**
- 253 Calculus of operations.
- 255 Complex numbers.
- 257 Quaternions.
- 259 Ausdehnungslehre.
- 261 Other Vector analysis.
- 263 Matrices.
- 265 Algebra of Logic.
- 273 **Probabilities.**
See also QH405, Statistical methods (General biology); HA29-31, Theory of Statistics.
- 275 Theory of errors. Least squares.
- 277 Graphic methods for discussion of observations.
- 281 Calculus of differences. Interpolation.
- 295 Series. Infinite products and other infinite processes.

ANALYSIS.

(Calculus, functions and differential equations.)

See also QA281, Calculus of differences.

300 **COMPREHENSIVE WORKS.**302 **EARLY WORKS BEFORE 1800.****Calculus.**

303 General.

304 **DIFFERENTIAL CALCULUS.**

305 Problems and exercises.

306 Miscellaneous special topics.

308 **INTEGRAL CALCULUS.**

309 Problems and exercises.

310 Tables of integrals.

311 Miscellaneous special topics.

315 **CALCULUS OF VARIATIONS.**

316 Miscellaneous special topics.

Theory of Functions.

331 General.

332 Uniform functions.

333 Multiform functions. Riemann surfaces.

341 Algebraic functions.

342 Logarithmic, circular, and exponential functions.

343 Elliptic functions. Modular functions.

345 Abelian functions (including hyperelliptic). Theta functions.

351 Miscellaneous special functions.

(Gamma, hypergeometric, automorphic, etc.)

See also QA406-409, Spherical harmonics, Bessel's and Lamé's functions.

Differential Equations.

371 General.

372 Ordinary differential equations (linear and nonlinear).

374 Partial differential equations (first order).

377 Partial differential equations (second and higher orders).

381 Differential forms and invariants. Pfaffians.

385 **Continuous groups. Infinitesimal transformations.****Analytical methods connected with physical problems.**

See also QA825, Theory of potential.

401 General.

403 Harmonic analysis (general).

404 Fourier's series.

406 Laplace's and Legendre's functions (spherical harmonics).

408 Bessel's functions (cylindrical harmonics).

409 Lamé's functions (ellipsoidal harmonics).

411 Toroidal and other harmonics.

431 Difference equations and functional equations.

See also QA281, Calculus of differences.

GEOMETRY.**Elementary Pure Geometry.**

- 451 Euclid's elements as text-books.
For Greek texts and translations see QA31.
- 453 Other text-books (plane and solid).
- 455 Plane.
- 457 Solid.
- 459 Problems and exercises.

STUDY AND TEACHING.

- 461 Essays.
- 462 Special methods (rudiments).
- 463 Laboratory manuals.
- 464 Practical geometry (plane).
- 465 Mensuration.

FAMOUS PROBLEMS.

- 467 Circle squaring.
- 468 Trisection of any angle.
- 469 Duplication of the cube.

PROJECTIVE GEOMETRY.

See also QA554, Projective methods (Analytic geometry).

SPECIAL TOPICS IN PLANE GEOMETRY.

- 481 Axioms. Postulates. Logic.
See also QA681, Foundations of geometry.
- 482 Straight lines and angles.
- 484 Circle.
- 485 Conics.

SPECIAL TOPICS IN SOLID GEOMETRY.

- 497 Higher geometrical drawing (plane).

Descriptive Geometry.

Mechanical drawing in T351-357. Stereotomy in TH.

- 501 General.
Parallel projection.
- 503 Orthogonal projection on 2 planes.*
- 505 Isometric projection.
- 507 Oblique projection.
- 511 Central projection.
- 515 Perspective.*
- 519 Shades and shadows.*
*Geometrical works only. Manuals for artists are classified in "Chap. 31."

Miscellaneous special topics.

[Spherical projection. See Map projection in GA110-115.]

Geometry and Trigonometry (together).**Trigonometry.**

- 531 General.
- 533 Plane.
- 535 Spherical.

Trigonometry—Continued.

- 537 Problems and exercises.
- 538 Special topics.

Analytic Geometry.

- 551 General.
- 552 Plane.
- 553 Solid.
- 554 Projective methods.
- 555 Problems and solutions.
- Special topics.
- 556 Coordinates.
- 557 Straight line and circle.
- 559 Conics.
- 561 Quadric surfaces.
- 563 Maxima and minima.
- Higher plane algebraic curves.
- 565 General.
- 567 Special curves.
- Higher algebraic surfaces.
- 571 General.
- 573 Special surfaces.
- 581 Skew algebraic curves.

Transformations and general methods for algebraic configurations.

- 601 General. Collineation, etc.
- 603 Classification of curves and surfaces. Groups of points and curves.
- 605 Application of transcendental functions to curves and surfaces.
- 607 Enumerative geometry.
- 608 Connexes, complexes, congruences.
For algebraic configurations in hyperspace see QA691.
- 611 Analysis situs. Topology.

Infinitesimal Geometry.

- 621 Of curves.
- 623 Kinematic geometry. Roulettes.
- 624 Curvature.
- 626 Rectification and quadrature.
- 628 Transcendental curves.
- 631 Of surfaces.
- 634 Curvature.
- 636 Areas and volumes.
- 638 Transcendental surfaces.

Differential Geometry.

- 641 General theory of surfaces.
- 643 Curves on surfaces.
- 644 Minimal surfaces.
- 645 Surfaces determined by relations of curvature, etc.
- 646 Conformal and other representations of surfaces.
See also GA110-115, Map projection.
- 648 Deformation of surfaces.
- 649 Miscellaneous special topics.
- 681 Foundations of geometry.
- 685 Non-Euclidean geometry.
- 691 Hyperspace.
- 699 Popular works. Fiction (flatland, fourth dimension, etc.)

ANALYTIC MECHANICS.

Mathematical works only classified here. Experimental mechanics in QC122-168. Applied mechanics in TA350-365. See also QB351-421, Celestial mechanics.

- 802 HISTORY AND PHILOSOPHY.
- 803 NEWTON'S PRINCIPIA and commentaries.
- 804 WORKS OF EULER, LAPLACE, LAGRANGE, and their contemporaries.
- 805 RECENT TREATISES.
- 807 Elements.
- 809 PROBLEMS AND EXERCISES.
- Statics.**
See also Graphic statics in TG.
- 821 General.
- 823 Composition and resolution of forces at a point.
- ATTRACTIONS AND POTENTIAL.**
See also QA401-411; QC518.
- 825 General.
- 827 Ellipsoids and other special systems.
- 831 Rigid bodies. Forces and couples in 3 dimensions.
- 835 Chains and flexible surfaces.
- 839 Geometry of masses. Centres of mass. Moments of inertia.
- 841 **Kinematics.** (Including composition of motions and displacements, relative motions, moving axes, theory of screws.)
See also Kinematics of machinery in TJ; QA623, Roulettes; QC231, Kinematics of vibration and wave motion.

Dynamics.

See also UF820, Motion of projectiles (Ballistics).

845 Treatises.

846 Elements.

DYNAMICS OF A PARTICLE.

851 General.

Special.

853 Orbital and constrained motion.

855 Motion on surfaces.

RIGID DYNAMICS.

861 General.

862 Special systems (alphabetically).

e. g., Gyroscope, G9; Pendulum, P4; Top, T7.

863 Miscellaneous topics.

871 General methods in dynamics (Lagrange's equations, Least action, Stability of systems, etc.).

Statics and Dynamics of Fluids.

See also QB410, Rotating masses of gravitating fluid.

901 General works.

903 Problems and exercises.

HYDROSTATICS.

905 General.

907 Special topics (Floating bodies, etc.).

See also VM761, Stability of ships.

HYDRODYNAMICS.

See also QC223, Mathematical theory of sound; TC188-189, Hydraulics.

911 General.

Special topics.

913 Kinematics of fluids. Irrotational motions. Sources and sinks. Motion of solid bodies in perfect fluids.

925 Vortex motion.

927 Waves.

929 Viscous fluids.

Elasticity.

See also TA401-410 Strength of materials.

931 General.

935 Special topics.

See also QC191; QC223.

Preliminary
July 1, 1905

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CLASSIFICATION

CLASS QB: ASTRONOMY

(INCLUDING GEODESY)

CLASS QB
ASTRONOMY

1 PERIODICALS, SOCIETIES, ETC.

3 COLLECTIONS.

4 OBSERVATIONS.

(Alphabetically by place, except where the observatory has a well-known special name, e. g., Lick Observatory, not Mount Hamilton. Series of memoirs published by observatories are included here, but not annual reports. See QB82.)

6 STAR CATALOGUES (including zone observations, etc.).

See also QB815, Photometric catalogues; QB821, Double stars; QB835, Variables; QB851, Clusters and nebulae; QB881, Classified catalogues.

EPIHEMERIDES.

7 Early.

Modern.

8 Nautical almanacs (by countries, alphabetically).

9 Other yearbooks.

GENERAL TABLES.

11 Early.

12 Modern.

14 DICTIONARIES.

HISTORY.

15 General.

16 Ancient.

See also CE21-46, Ancient chronology.

17 Chinese.

18 Hindu.

19 Assyro-Babylonian, etc.

20 Egyptian.

21 Greek.

22 Roman.

23 Mediæval.

Astrology.

25 History.

26 Mediæval works.

Modern imitations in Chap. 28.

HISTORY—Continued.

- 28 Modern.
- 29 Renaissance to Newton.
- 31 18th century.
- 32 19th century and after.

BIOGRAPHY OF ASTRONOMERS.

- 35 Collective.
- 36 Individual.
- 41 **EARLY WORKS** (before Newton).

See also QB85, Early astronomical instruments; QB215, Dialing; GA6-7, Cosmography; VK551, Navigation (early works).

GENERAL WORKS (since Newton).

- 42 18th century.
 - 43 Since 1800.
 - 44 **DESCRIPTIVE WORKS** (for general readers).
 - 45 **ELEMENTARY TEXT-BOOKS.**
 - 46 **RUDIMENTS.**
 - 51 **ESSAYS, LECTURES, ADDRESSES, ETC.**
 - 52 Miscellaneous speculations.
 - 54 Plurality of worlds.
 - 55 Astronomical myths, legends, and superstitions.
 - 61 **STUDY AND TEACHING.**
 - 62 Outlines, laboratory manuals, etc.
 - 63 Stargazers' guides.
 - 64 Observers' handbooks.
 - 65 Atlases and charts.
 - 66 Use of globes (astronomical).
- See also GA12.
- 67 Miscellaneous models.
 - 68 Pictorial works, etc.

OBSERVATORIES.

- 81 General.
 - 82 Individual.
- (Including description, history, reports, etc., alphabeted as in QB4.)
- 84 Observatory buildings.
- (Domes, piers, rising floors, chairs, etc.)

Astronomical Instruments.

(Description, theory, and adjustment.)

- 85 **Early.**
- (Including descriptions of early observatories.)
- 86 **Modern.**
 - 88 Telescopes. Objectives. Mirrors.
 - 97 Equatorial mountings. Driving clocks.
- Siderostats. Heliostats.

Astronomical Instruments.**Modern—Continued.**

- 101 Meridian instruments.
(Transit circle, zenith telescope, visual and photographic.)
- 103 Extra-meridian instruments.
(Altazimuth, almucantar, transit out of meridian, etc.)
- 105 Portable instruments.
(Transit, solar compass, etc.) See also VK583, Sextant.
- 107 Clocks. Chronometers. Chronographs.
For use of chronograph in ballistics, see UF820.
- 111 Eyepieces.
- 113 Micrometers.
- 115 Levels. Artificial horizons. Illumination, etc.
- 121 Astronomical photography.
- 135 Astronomical photometry.
[Astronomical spectroscopy, see QB465, 551, 871-873.]

PRACTICAL AND SPHERICAL ASTRONOMY.

Nautical astronomy in VK551-585; Use of globes in QB66.

- 145 General.
- 147 Celestial sphere and coordinates.
Correction and reduction of observations.
See also QB12, General tables.
- 151 General.
- 153 Personal equation.
(Including apparatus for its determination.)
- 154 Errors of adjustment, etc.
REDUCTION TO CENTER OF EARTH.
Refraction.
 - 155 Theory and determination of constant.
 - 156 Tables.
 - 159 Parallax.**CORRECTION FOR MOVEMENT OF EARTH AND EQUINOXES.**
(Including determination of constants by observation.)
- 161 General.
- 163 Aberration.
Electromagnetic theory in QC671.
- 165 Precession and nutation.
- 167 Annual parallax.
- 168 Star reduction (from mean to apparent place).
- 169 Position of the pole.
- 171 Determination of the ecliptic.
- 175 **Prediction of eclipses, occultations, and transits.**
- 181 Miscellaneous phenomena at occultations and transits.

Geodetic Astronomy.

(Latitude, longitude, time, and azimuth.)

201 General.

205 Observations.

See also QB296.

207 Azimuth. Determination of meridian.

TIME.

Historical chronology, calendar, etc., in CE.

211 Sidereal and solar, and their conversion.

213 Methods of finding the time.

215 Sun dials and dialing.

217 Equation of time.

221 Time signals, etc.

223 Systems and standards.

224 Prime meridians.

LONGITUDE.

225 Methods.

228 Tables and ephemerides.

229 Observations.

LATITUDE.

231 Methods.

235 Observations.

237 Variation of latitude.

GEODESY.

281 History and descriptive works.

283 Mathematical theory of the figure of the earth.

See also QA827, Attractions of ellipsoids; QB410, Rotating masses of gravitating fluid.

291 Special arc measures.

294 International congresses, etc.

296 Observations (by countries, alphabetically).

301 **GEODETIC SURVEYING.**

Plane surveying in TA501-625.

303 Base-measuring (including apparatus).

See also QC101, Standards of length.

Triangulation.

311 Field work.

321 Theory and computation.

See also QA175, Least squares.

Gravity Determinations.

331 Theory and description of apparatus.

See also QA862.P4, Dynamics of pendulum.

Observations.

335 Length of seconds pendulum, etc.

338 Plumb line deflections.

341 Constant of gravitation. Mean density of the earth.

THEORETICAL ASTRONOMY AND CELESTIAL MECHANICS.

- 351 General.
- Calculation of Orbits.**
- 355 General.
- 357 Comets.
- For orbits of individual comets, see QB723-727.
- Perturbations.**
- PLANETARY THEORY.**
- 361 General.
- 362 Special topics.
- 369 Tables and observations.
- Individual planets.
- 371 Mercury, theory and tables.
- 372 Venus, theory and tables.
- 374 Sun's apparent motion, theory and tables.
- 376 Mars, theory and tables.
- Minor planets, theory and tables.
- 377 General.
- 378 Individual.
- (Alphabetically by name of minor planet.)
- 384 Jupiter and Saturn, theory and tables.
- 387 Uranus, theory and tables.
- 388 Neptune, theory and tables.
- LUNAR THEORY.**
- 391 General.
- 392 Special topics.
- 397 Observations.
- 399 Tables.
- SATELLITES.**
- 401 General.
- 403 Satellites of Mars.
- 404 Satellites of Jupiter.
- 405 Satellites and ring system of Saturn.
- 406 Satellites of Uranus.
- Satellites of Neptune.
- 410 Figures of equilibrium of rotating masses of fluid.
- Theory of Tides.**
- See also GC, Oceanography; VK602-782, Tide tables.
- 415 General.
- 416 Special.
- 417 Instruments.
- 419 Miscellany.
- 421 Theory of double-star systems.

DESCRIPTIVE ASTRONOMY AND ASTROPHYSICS.

Periodicals, societies, etc., in QB1.

Descriptive astronomy (general works) in QB44.

461 **ASTROPHYSICS (GENERAL WORKS).**

465 **Astronomical spectroscopy.**

See also QB551, Spectroscopy of sun and eclipses.

QB871-903, Stellar spectroscopy.

QC451, General spectroscopy.

Solar System.

501 **General.**

502 **Miscellaneous speculations.**

505 **Physical conditions (atmospheres, resisting medium, etc.)**

507 **Proper motion in space.**

508 **Solar parallax and related constants**

TRANSIT OF VENUS.

509 **General.**

511 **1769.**

512 **1874.**

513 **1882.**

515 **Transit of Mercury.**

516 **Observations of Mars and minor planets.**

518 **Other methods.**

Sun.

521 **General.**

523 **Mass, diameter, etc.**

525 **Sun spots and faculae.**

528 **Atmosphere, chromosphere, etc.**

529 **Corona.**

531 **Radiation, temperature, etc.**

See also QC911, Solar radiation (Meteorology.)

539 **Miscellaneous topics.**

Solar Eclipses.

541 **General.**

542 **Before 1800.**

See also CE, Chronology.

543 **1800-1899.***

544 **1900-1999.***

*(Book number=last two figures of the year followed by the author's initial.)

551 **Spectroscopy of sun and eclipses.**

579 **Lunar eclipses.**

Moon.

581 **General.**

583 **Distance, parallax.**

585 **Rotation, libration, and shape.**

Moon—Continued.

- 588 Temperature, radiation, brightness, and phases.
- 591 Surface, physical condition.
- 595 Photographs, maps, drawings.

Planets.

See also QB401–406, Satellites; QB501, Solar system.

- 601 General.
- 603 Miscellaneous topics.
- 606 Inferior planets.
- 607 Intra-mercurial planets.
- 611 Mercury.
- 621 Venus.
- 631 Earth (as a planet).
- 633 Rotation.
- 638 Curiosa and miscellany.
- 639 Superior planets.
- 641 Mars.
- 651 Minor planets.
- 661 Jupiter.
- 671 Saturn.
- 681 Uranus.
- 691 Neptune.

Comets.

See also QB357, Calculation of orbits.

- 721 General.
- 722 Catalogues.
- 723 Periodic comets (alphabetically by name of comet).
- 724 Comets before 1700.
- 725 1700–1799.*
- 726 1800–1899.*
- 727 1900–1999.*
(* Book number—last two figures of year, followed by author's initial.)
- 729 Distribution of comets.
- 731 Nature and constitution. (Before the spectroscope.)
- 732 Nature and constitution (modern views).

Meteors.

- 741 General.
- 743 Methods of observation and geometrical topics.
(Radiants, altitude, etc.)
- Periodic showers.
- 745 November.
- 746 August.
- 748 Orbits.
- 749 Relation between meteors and comets.
- 751 Other theories of the origin of meteors.

Meteors—Continued.

753 Remarkable meteors, fireballs.

755 Meteorites.

Mineralogical works in QE395.

761 Zodiacal light.

763 Gegenschein.

Stars.

See also QB6, Star catalogues.

801 General.

802 Constellation figures. Star names.

See also QB63, Stargazers' guides.

811 Proper motion.

813 Parallax and distance.

815 Magnitude. Photometric catalogues.

819 Distribution. Milky Way.

DOUBLE AND MULTIPLE STARS.

See also QB421; QB903.

821 General. Observations. Catalogues.

823 Particular stars.

829 Colors of double stars.

VARIABLE STARS.

See also QB895.

835 General. Observations. Catalogues.

837 Particular stars.

841 Temporary or new stars.

CLUSTERS AND NEBULÆ.

See also QB891.

851 General. Observations. Catalogues.

853 Clusters—Micrometer measurements.

855 Nebulæ—Description.

STELLAR SPECTROSCOPY.

See also QB465, Astronomical spectroscopy (general).

871 General.

873 Instruments and apparatus.

875 Chemical and physical constitution.

881 Classification of stars. (Including classed catalogues.)

883 Study of special types of spectra.

891 Nebulæ and clusters.

895 Variables and new stars.

901 Motion in the line of sight.

903 Spectroscopic observations on double stars.

981 Cosmogony.

Nebular hypothesis.

Meteoritic hypothesis.

991 End of the universe.

Preliminary
July 1, 1906

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CLASSIFICATION

CLASS QC: PHYSICS

(INCLUDING WEIGHTS AND MEASURES, EXPERIMENTAL
MECHANICS, TERRESTRIAL MAGNETISM,
AND METEOROLOGY)

CLASS QC

PHYSICS

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 DICTIONARIES.
- 7 HISTORY.
- BIOGRAPHY OF PHYSICISTS.
- 15 Collective.
- 16 Individual.
- EARLY WORKS.
- 17 16th and 17th centuries.
- 19 18th century.
- 20 MATHEMATICAL PHYSICS.
- 21 RECENT TREATISES AND ADVANCED TEXT-BOOKS (experimental).
- 23 Elements.
- 25 Rudiments.
- 30 STUDY AND TEACHING.
- 31 Outlines, syllabi, etc.
- 32 Problems, exercises, etc.
- 33 Qualitative experiments.
- Laboratory manuals.
- 35 Elementary.
- 36 Laboratory blanks.
- 37 Advanced.
- 39 General theory of physical measurements.
- 41 Laboratory technique.
- 51 LABORATORIES.
- See also QC100, Standardizing bureaus; QC541, Electrical laboratories.
- 53 INSTRUMENTS AND APPARATUS.
- See also QC102-104, Instruments for measurement of length and volume;
 QC107, Balance; QC165-166, Manometers, air pumps, etc.; QC176,
 Radiometer; QC245, Phonograph; QC271-278, Thermometers; QC291,
 Calorimeters; QC371-375, Optical instruments; QC543-544, Electrical
 apparatus and instruments; QC819, Magnetic instruments; QC876,
 Meteorological instruments.
- 61 TABLES.
- 71 ESSAYS, LECTURES, ADDRESSES, ETC.
- 73 Force and energy.
- 75 Miscellaneous speculations.

WEIGHTS AND MEASURES.

See also QC536-537, Electrical units and standards.

- 81 PERIODICALS, SOCIETIES, ETC.
- 82 DICTIONARIES (OF TERMS).
 - [See QC88 for general works with an alphabetical arrangement of countries.]
- HISTORY:
 - 83 General.
 - 84 Ancient.
 - 85 Mediæval.
 - 86 Modern.
- 88 GENERAL WORKS.
- 89 By countries alphabetically.
- Metric System.**
 - 91 General discussions.
 - 93 Study and teaching (including text-books).
 - 94 Conversion tables.
 - 96 Miscellaneous proposals for new systems.
 - 99 Eccentric literature (pyramid inches, etc.)
- 100 Standards and standardizing bureaus, general description.
- 101 STANDARDS OF LENGTH.
- 102 Measurement of length (including instruments).
 - [Measurement of area (including instruments), see QA81, Planimeter.]
- 104 Measurement of volume (including instruments).
- 105 STANDARDS OF MASS.
- 106 Measurement of mass and weight.
- 107 Balance.
- 111 Measurement of density and specific gravity.
- 114 Tables of specific gravities.

EXPERIMENTAL MECHANICS.

Analytic mechanics in QA802-935.

General and Solids.

- 122 HISTORY.
- 123 EARLY WORKS.
- 125 TREATISES.
- 127 ELEMENTS.
- 131 Miscellaneous topics.
See also UF820, Motion of projectiles (Ballistics); TL211-213, Laws of flight, aerodynamics, etc.

Fluids.

- EARLY WORKS.
- 142 Ancient.
16th and 17th centuries.
- 144 18th century.
- 145 RECENT GENERAL WORKS.
- 147 LIQUIDS AT REST. Floating bodies.
See also QA905-907, Hydrostatics.
- 151 LIQUIDS IN MOTION.
Technical hydraulics in TC189-193.
- 157 Waves.
Mathematical theory in QA927.
- 159 Vortex rings, etc.
Mathematical theory in QA925.
- 161 GASES. (Pneumatics.)
See also QC286; QD531.
- 165 Measure of pressure. Manometers.
- 166 Air pumps, etc.
- 168 Motion of gases.

CONSTITUTION AND PROPERTIES OF MATTER.

See also QD453-999, Physical chemistry and crystallography.

- 171 GENERAL WORKS.
- 173 Structure of matter and ether. General.
See also QC671, Aberration; QC721, Radio-active substances.
- 175 Kinetic theory of gases.
- 176 Radiometer.
- 177 Theories of the ether.
- 178 Theories of gravitation.
- 179 Molecular dimensions.
- Special properties of matter.
- 183 Capillarity (including Brownian movements).
- 185 Diffusion.

Special properties of matter—Continued.

[Osmosis. See QD541–543, Theory of solution: QH615, The cell (general biology); QK725, Physical properties of plant cell.]

189 Viscosity.

191 Elastic properties of solids.

Mathematical theory in QA931–935; Materials of construction in TA410–490; Crystals in QD933.

197 Friction, etc.

220 Sound, light, and heat.

SOUND (Acoustics).

See also QP461–469, Physiological acoustics; ML3805–3817, Musical acoustics; Architectural acoustics in TH.

GENERAL WORKS.

223 Mathematical theory.

225 Experimental and descriptive.

227 Laboratory manuals and apparatus.

229 Miscellaneous speculations.

Special topics.

231 Kinematics of vibrations and wave motion.

233 Propagation of sound.

Velocity, reflexion, refraction, interference, diffraction, etc.

Vibrations.

235 Strings, rods, membranes, plates.

241 Gases in tubes, etc. Resonance.

243 Sound-waves (amplitude, energy, frequency, etc.).

245 Phonograph.

246 Analysis of sounds (by phonograph, etc.).

HEAT.

252 HISTORY AND PHILOSOPHY.

253 EARLY WORKS.

254 TREATISES (Mathematical and General).

255 ELEMENTS.

257 ESSAYS, LECTURES, ADDRESSES, ETC.

261 STUDY AND TEACHING (including lecture experiments, etc.).

263 Laboratory measurements.

Thermometry.

See also QC876, 902, Meteorological instruments.

271 General.

272 Mercury and other liquids.

273 Air and gases.

274 Electrical.

275 Other.

277 High temperatures (Pyrometry).

278 Low temperatures.

- 281 **Relations between pressure, volume, and temperature.**
282 Solids.
See also QD937, Thermal properties of crystals.
284 Liquids.
286 Gases.
Calorimetry.
See also QD511, Thermochemistry; TP320, Fuel.
291 General.
295 Specific heats of solids and liquids.
297 Specific heats of gases and vapors.
Change of State.
301 General.
303 Fusion and solidification.
304 Pressure and volume of saturated vapors. Evaporation.
Ebullition.
[Vapor densities see QD533.]
[Liquefaction of gases see QD535.]
307 Continuity of state. Critical state. Critical point.
Thermodynamics.
311 General.
See also Application to steam engine in TJ.
312 Mechanical equivalent of heat.
318 Other special topics on Heat and Energy.
319 Miscellaneous speculations.
Transmission of heat.
Conduction.
321 Mathematical theory.
323 Experimental.
327 Convection.
331 Radiation and absorption. Laws of cooling.
338 Instruments for measurement of radiant heat (Bolometer,
Thermopile, etc.).
See also QC457, Infra-red spectrum.

LIGHT (Optics).

See also QP475-495, Physiological optics.

- 353 Early works.
GENERAL WORKS.
355 Mathematical and theoretical.
357 Experimental and descriptive.
361 ESSAYS, LECTURES, ADDRESSES, ETC.
363 STUDY AND TEACHING.
365 Qualitative experiments and elementary laboratory manuals.
367 Optical measurements (Advanced laboratory manuals).
369 Tables.

Optical Instruments and Apparatus.

- 371 General.
- 373 Special (alphabetically).
 - Except Lantern, Q186; Microscope, QH201-277.
- 375 Glass (for optical instruments, etc.).

Geometrical Optics.

- 381 General.
 - See also TR220, Photographic optics.
- Special topics.
- 383 Mathematical and theoretical.
- 385 Experimental (Reflexion. Refraction. Mirrors. Lenses).
- 387 Refractive indices and refractometers.

Photometry.

See also QB135, Astronomical photometry.

Physical Optics.

- 401 THEORIES OF LIGHT.
- 402 Corpuscular theory.
- 403 Wave theory.
 - See also QC670, Electromagnetic theory.
- 406 Miscellaneous speculations.
- 407 Velocity of light.
- 411 Interference.
 - (Newton's rings, Interferometer, etc.)
- 415 DIFFRACTION.
- 425 Reflexion and refraction.
 - For geometrical topics under this head see QC383-385.
- 431 Dispersion.
- 435 Anomalous dispersion.
- 437 Absorption.
- POLARIZATION.
 - See also QD481, Stereochemistry; TP382, Saccharimetry.
- 441 General.
- Special topics.
- 443 Production and measurement.
- 445 Rings and brushes of crystals.
 - See also QD941, Optical properties of crystals.

Spectroscopy

- 451 General.
 - For applications to analytic chemistry see QD95.
 - For applications to astronomy see QB465, 551, 871-903.
- 453 Wave length tables.
- 454 Spectra of special elements.
- 455 SOLAR SPECTRUM (for wave length measurement and maps only).
 - See QB551 for works relating to the constitution and physical condition of the sun.
- 457 Infra-red spectrum.
 - See also QC338, Bolometer, thermopile, etc.

Spectroscopy.

- SOLAR SPECTRUM—Continued.
- 459 Ultra-violet spectrum.
- 465 Instrumental details, adjustment, etc.
- 467 Analysis of bright lines. Effect of pressure, etc.
See also QC675, Zeeman phenomenon.
- 475 Emission of radiation—general.
- 477 Fluorescence.
- 478 Phosphorescence.
- 481 **X-rays** (Röntgen radiation).
See also QC711, Discharges through gases; RM881, Medical works.
- 485 Other radiations (N rays, etc.)
See also QC721, Radioactivity.
- 495 Color.

ELECTRICITY AND MAGNETISM.

Applications in TK, Electrical industries.

- 501 PERIODICALS, SOCIETIES, ETC.
- 503 COLLECTIONS.
- 505 DICTIONARIES.
- 507 HISTORY.
- BIOGRAPHY OF ELECTRICIANS.
- 514 Collective.
- 515 Individual.
- EARLY WORKS.
- 516 Before Galvani.
- 517 Galvani to Oersted.
- 518 TREATISES (including Mathematical theory).
- 521 Descriptive and experimental.
- 523 ELEMENTS.
- 527 POPULAR WORKS.
- 530 STUDY AND TEACHING.
- 531 Outlines, syllabi, etc.
- 532 Problems and exercises.
- 533 Lectures and lecture experiments.
- 534 Elementary laboratory manuals.
- 535 ELECTRICAL MEASUREMENTS.
See also Electrical testing in TK.
- 536 Electric and magnetic units, theory.
- 537 Standards.
- 541 LABORATORIES.
- APPARATUS AND INSTRUMENTS.
- 543 General.
- 544 Special (alphabetically).
See also QC573, Electrical machines; QC587, Condensers; QC603–605, Electric batteries; QC645, Induction coils; Electric meters in TK.

- 561 Miscellany.
- 571 **Static Electricity.**
 See also QA825, Theory of potential.
- 573 Electrical machines (frictional and induction).
- 577 Electro-capillary phenomena.
- 581 Special topics. (Mathematical theory.)
- 585 Dielectric.
- 587 Condensers.
- 589 Measurement of capacity, etc.
- 595 Pyro- and Piezo-electricity.
 See also QD939, Electric properties of crystals.
 [Atmospheric electricity in QC961.]
- 601 **Electric Current (general).**
 See also QD553-561, Electrolysis.
- Electric batteries:
- 603 General and primary.
- 605 Secondary (Storage cells).
- 607 Ohm's Law. Net works.
- 609 Conduction in two and three dimensions.
 Special experimental topics.
- 611 Conductivity. Resistance.
 See also QD561, Conductivity of electrolytes.
- 615 Measurements of currents.
- 618 Electro-motive force.
- 621 Thermo-electricity.
- Electrodynamics.**
- 631 Mutual actions of steady currents and of currents and magnets.
- 638 Mutual and self-induction.
- 641 Alternating currents—Theory.
 See also Alternating current machinery in TK.
- 645 Induction coils
 [Transformers. See TK.]
- Electric Waves.**
- 661 Theory.
- 665 Experimental.
 See also Wireless telegraphy in TK.
- 670 **ELECTROMAGNETIC THEORY OF LIGHT.**
- 671 Aberration and moving media.
 Astronomical works on aberration in QB163.
- 673 Electro-optical phenomena (Kerr phenomenon, etc.).
- 675 Magneto-optical phenomena (Faraday & Zeeman phenomena, etc.).

Electric Discharge.

- 701 General.
- 703 Disruptive discharge. Electric spark.
See also QC966, Lightning; QC454, Spectra of special elements.
- 705 Voltaic arc.
Arc lighting in TK.
- 711 Discharge through rarefied gases. Cathode rays.
See also QC481, X-rays.
- 715 Effects of light, X-rays, etc., on the discharge.
- 721 **Radio-activity and Radio-active Substances.**
Physics of the electrons.

Magnetism.

- 751 Early works.
- 753 Recent general works.
Special topics.
- 757 Magnets.
- 760 Electromagnet.
- 761 **MAGNETIC INDUCTION.**
Theory.
Measurement of magnetic force, susceptibility, permeability, etc.
Hysteresis.
Relation between thermal, elastic, and magnetic properties.
- 771 Diamagnetism.

TERRESTRIAL AND COSMICAL PHYSICS.

- 801 PERIODICALS, SOCIETIES AND COLLECTIONS.
- 802 OBSERVATIONS (at fixed stations, alphabetically).
- 803 OBSERVATIONS (by countries, alphabetically).
- 804 HISTORY.
- 805 BIOGRAPHY.
- 806 GENERAL WORKS.
- 807 Miscellaneous speculations.
- 808 Observatories.

TERRESTRIAL MAGNETISM.

- 811 PERIODICALS, SOCIETIES AND COLLECTIONS.
- 813 HISTORY.
- 814 Early works.
See also QC 751.
- 815 GENERAL WORKS.
- 816 Miscellaneous speculations.
- 818 Observatories.
- 819 Instruments.
- 820 Methods of observation. Instructions for observers.
- 825 MAGNETIC SURVEYS.
 - . 1 North America.
 - . 2 Mexico, Central America and West Indies.
 - . 3 South America.
 - . 4 Europe.
 - . 5 Asia.
 - . 6 Africa.
 - . 7 Australia.
 - . 8 Arctic.
 - . 9 Antarctic.
- 826 Oceanic areas (alphabetically).
- 827 Magnetic field of the earth, analysis and theory.
- 828 Secular variation.
- 830 MAGNETIC OBSERVATIONS (at fixed stations, alphabetically).
- 831 Diurnal variation.
- 833 Other periodic variations.
- 835 Magnetic disturbances.
- 836 Terrestrial magnetism and sunspot period.
- 837 Terrestrial magnetism and eclipses.
- 839 Terrestrial magnetism and meteorological phenomena.
- 841 Terrestrial magnetism and geological structure.
- 843 Terrestrial magnetism and earthquakes.
- 845 Earth currents.
- 849 Magnetism of ships and deviation of compass.

METEOROLOGY.

- 851 PERIODICALS, SOCIETIES, ETC.
- 852 COLLECTIONS.
- HISTORY.
- 855 General.
- 857 Local (by countries, alphabetically).
- 859 EARLY WORKS (BEFORE 1800).
- 861 TREATISES.
- 863 ELEMENTS.
- 865 ESSAYS, LECTURES, ADDRESSES, ETC.
- 866 Miscellany.
- 869 STUDY AND TEACHING.
- 871 Methods of observation. Instructions for observers.
- 873 Tables (general).
- 874 Computation and analysis.
- 875 Observatories and weather services.
- 876 Instruments (general).
 - See also QC886, 896, 902, 912, 916, 923, 926, 932, 962.
- 879 Exploration of the upper regions of the air (kites, balloons, instruments, etc.; Mountain observatories).
 - See also TL200-300, Aeronautics.
- 880 Mechanics and thermo-dynamics of the atmosphere.
 - Chemistry of the air in QD163.
- 883 Periodicity. Cosmical relations. Influence of sun and moon.
- Atmospheric Pressure.**
- 885 General.
- 886 Mercury barometers.
- 887 Tables for reductions.
- 889 Distribution, isobars, etc.
- 891 Variations and oscillations.
- 895 Barometric measurement of heights.
- 896 Aneroid barometer.
- Temperature and Radiation.**
- Atmospheric temperature.
- 901 Distribution, isotherms, etc.
- 902 Instruments and methods of observation.
- 903 Variations.
- 905 Winter temperatures.
- 906 Summer temperatures.
- 907 Earth temperature.
- 908 Sea temperature.
- 909 Rivers, lakes, and springs—Temperature.
- 911 Solar radiation and sunshine. Atmospheric absorption.
- 912 Instruments (actinometers, sunshine recorders, etc.).

- Aqueous Vapor and Rain.**
- 915 Vapor (general). Humidity.
- 916 Instruments (hygrometers, psychrometers, etc.).
- 917 Tables.
- CLOUDS.**
- 921 Formation and varieties of form.
- 922 Observations (of altitude, motion, etc.).
- 923 Methods of observation and instruments.
- RAIN AND RAINFALL.**
- 925 General.
- Local.
- . 1 North America.
- . 2 Mexico, Central America, and West Indies.
- . 3 South America.
- . 4 Europe.
- . 5 Asia.
- . 6 Africa.
- . 7 Australia.
- . 8 Pacific and other Oceanic islands.
- 926 Instruments (rain gauges, etc.).
- 929 Special topics (alphabetically).
- e. g. .D5 Dew formation.
- .D8 Droughts.
- .F6 Floods.
- .F7 Fog formation and distribution.
- .F8 Forests, Influence of.
- .H1 Hail.
- .H6 Hoarfrost.
- .R1 Rain making.
- .R2 Rain without clouds.
- .S5 Showers of miscellaneous matter.
- .S7 Snow.
- Wind.**
- 931 General.
- 932 Anemometers and other instruments.
- Special topics.
- 933 Direction and velocity.
- 934 Wind relation to atmospheric pressure.
- 935 Upper currents.
- 939 Constant, local, and periodical winds (alphabetically).
- e. g., M7, Monsoons; M8, Mountain and valley winds; N8, Northers.
- 941 **STORMS (general).**
- 942 Laws of cyclonic storms.
- 943 Application for navigators.

Wind.**STORMS—Continued.****Geographical distribution of cyclones.**

945 Atlantic and West Indies (hurricanes).

947 India and the Indian Ocean.

948 China seas and Pacific (typhoons).

951 Miscellaneous topics.

955 **TORNADOES.**

957 Waterspouts.

958 Dust storms.

Atmospheric Electricity.

961 General.

962 Instruments and methods of observation.

963 Observations of potential variation.

966 **Lightning.**

Application to lightning rods in T.

968 **Thunderstorms.**

969 Miscellaneous electrical phenomena.

AURORA.

971 General.

972 Special.

See also Magnetic disturbances, QC835.

Meteorological Optics.

975 General.

976 Special topics, alphabetically.

e. g., C6, Coloration of sky; H1, Halos; M6, Mirage; P7, Polarization;
R1, Rain band spectrum; R2, Rainbows.**Climatology and Weather.**

981 General.

GEOGRAPHICAL DIVISIONS (meteorological registers, weather reports, and climate of special regions).

983 United States and North America in general.

984 States alphabetically.

985 Canada.

986 Mexico and Central America (countries alphabetically).

987 West Indies (alphabetically).

988 South America (countries alphabetically).

989 Europe (countries alphabetically).

990 Asia (countries alphabetically).

991 Africa (countries alphabetically).

992 Australia (provinces alphabetically)

993 Pacific and other Oceanic islands (alphabetically).

995 **WEATHER FORECASTING.**

998 Weather lore.

999 Weather almanacs and miscellany.

Preliminary
July 1, 1905

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CLASSIFICATION

CLASS QD : CHEMISTRY

(INCLUDING CRYSTALLOGRAPHY)

CLASS QD

CHEMISTRY

Physiological chemistry in QP501-521;
Chemical technology in TP;
Medical and Pharmaceutical chemistry in RS.
Agricultural chemistry in S583-587.

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 DICTIONARIES.
See also QD66, Dictionaries of solubilities.
- 7 NOMENCLATURE.
HISTORY.
 - 11 General.
 - 13 History of alchemy.
 - 14 Period before Lavoisier.
 - 15 Modern.
 - 18 Local (by countries alphabetically).
- BIOGRAPHY OF CHEMISTS.
 - 21 Collective.
 - 22 Individual.
- EARLY WORKS.
 - 25 Alchemy and iatro-chemistry.
See also R 126-128, Early medical works.
 - 27 Boyle to Lavoisier.
 - 28 Lavoisier to 1860.
 - 30 Manuals and textbooks to 1860.
- 31 RECENT TREATISES AND ADVANCED TEXT-BOOKS.
- 33 Elementary text-books.
- 35 Rudiments and juvenile.
- 39 ESSAYS, LECTURES, ADDRESSES, ETC.
- 40 STUDY AND TEACHING.
 - 41 Outlines, syllabi, etc.
 - 42 Problems and exercises.
 - 43 Lecture experiments.
 - 45 Laboratory experiments (i. e., School laboratory manuals).
Elementary qualitative analysis in QD83.
- 51 LABORATORIES.
- 53 Apparatus.

- 61 Laboratory technique (general).
See also TP830, Glass working; QD521-536.
65 Tables, etc.
66 Dictionaries of solubilities.

ANALYTICAL CHEMISTRY.

- 71 PERIODICALS, SOCIETIES, ETC.
72 HISTORY.
73 General Principles, Theory of Reactions, Calculations, etc.
75 GENERAL WORKS.
77 Reagents, indicators, test papers, etc.
Qualitative analysis.
81 Treatises.
83 Elements.
85 Tables, outlines, etc.
87 Blowpipe analysis.
See also QE367, Determinative mineralogy.
95 Spectrum analysis (chemical only).
101 **Quantitative analysis.**
111 Volumetric.
115 Electrolytic.
[For Organic analysis, see QD271.]
121 GAS ANALYSIS.
See also TP754, Illuminating gas—Analysis, tests, etc.
TECHNICAL ANALYSIS.
See also S587, Agricultural chemical analysis; TX531, Food analysis.
131 General.
133 Metallurgic.
See also Assaying in TN.
139 Other industries (alphabetically).
See also TD747, Sewage analysis; TP511, Testing of wines and spirits; TP671, Oil analysis; TP841, Clay analysis.
142 Water analysis.

INORGANIC CHEMISTRY.

- 151 Treatises.
[See QD33 for school textbooks.]
155 Inorganic preparations.
161 **Nonmetals.**
163 Chemistry of the air.
Metals.
171 General.
172 By groups (alphabetically).

181 Special topics.

(Alphabetically by chemical symbol of principal element according to following table of abbreviations):

A3. =Ag. Silver (argentum).	N3. =Nb. Niobium or Colum- bium.
A4. =Al. Aluminium.	N4. =Nd. Neodymium or Didy- mium.
A6. =Ar. Argon.	N5. =Ne. Neon.
A7. =As. Arsenic.	N6. =Ni. Nickel.
A9. =Au. Gold (aurum).	O1. =O. Oxygen.
B1. =B. Boron.	O7. =Os. Osmium.
B2. =Ba. Barium.	P1. =P. Phosphorus.
B4. =Be. Beryllium.	P3. =Pb. Lead (plumbum).
B5. =Bi. Bismuth.	P4. =Pd. Palladium.
B7. =Br. Bromine.	P7. =Pr. Praseodymium.
C1. =C. Carbon.	P8. =Pt. Platinum.
C15. =CN. Cyanogen.	R1. = Radium.
C2. =Ca. Calcium.	See also QC721.
C3. =Cd. Cadmium.	R3. =Rb. Rubidium.
C4. =Ce. Cerium.	R5. =Rh. Rhodium.
C5. =Cl. Chlorine.	R9. =Ru. Ruthenium.
C6. =Co. Cobalt.	S1. =S. Sulphur.
C7. =Cr. Chromium.	S2. =Sa. Samarium.
C8. =Cs. Caesium.	S3. =Sb. Antimony (stibium).
C9. =Cu. Copper.	S4. =Sc. Scandium.
E8. =Er. Erbium.	S5. =Se. Selenium.
F1. =F. Fluorine.	S6. =Si. Silicon.
F4. =Fe. Iron (ferrum).	S7. =Sn. Tin (stannum).
G2. =Ga. Gallium.	S8. =Sr. Strontium.
G4. =Gd. Gadolinium.	T2. =Ta. Tantalum.
G5. =Ge. Germanium.	T3. =Tb. Terbium.
H1. =H. Hydrogen.	T4. =Te. Tellurium.
H4. =He. Helium.	T5. =Th. Thorium.
H6. =Hg. Mercury (hydrargy- rum).	T6. =Ti. Titanium.
I1. =I. Iodine.	T7. =Tl. Thallium.
I5. =In. Indium.	T9. =Tu. Thulium.
I7. =Ir. Iridium.	U7. =Ur. Uranium.
K1. =K. Potassium (kalium.)	V2. =Va. Vanadium.
K6. =Kr. Krypton.	V5. =Vi. Victorium.
L2. =La. Lanthanum.	W1. =W. Tungsten (Wolfram).
L5. =Li. Lithium.	X1. =X. Xenon.
M4. =Mg. Magnesium.	Y7. =Yr. Yttrium.
M6. =Mn. Manganese.	Y8. =Yt. Ytterbium.
M7. =Mo. Molybdenum.	Z6. =Zn. Zinc.
N1. =N. Nitrogen.	Z7. =Zr. Zirconium.
N2. =Na. Sodium (natrium).	

N. B.—Here are classified all special works on the origin, properties, preparation, reactions, and analytical chemistry of individual elements and their inorganic compounds, excluding determinations of atomic weights (see QD464). The subdivision C5 (=Chlorine) includes also the halogens collectively.

199 Miscellaneous.

ORGANIC CHEMISTRY.

- 251 Treatises.
253 Elements.
255 Essays, lectures, etc.
(Theory, fundamental notions, etc.)
261 Laboratory manuals (organic preparations).
263 Electrosynthesis of organic compounds.
271 Organic analysis.
291 Indexes. Nomenclators.
Fatty compounds (Aliphatic).
301 General.
305 Special groups (alphabetically).
e. g., Acids, Alcohols, Aldehydes, etc.
319 Miscellaneous pamphlets.
321 CARBOHYDRATES (Sugars, starch, etc.).
See also TP375-416, Sugar manufacture.
325 Glucosides.
Aromatic compounds (Carbocyclic and heterocyclic).
331 General.
335 Synthesis from fatty compounds. Orientation. Other theoretical topics.
341 Special groups (alphabetically).
369 Miscellaneous pamphlets.
391 CONDENSED BENZENE-RINGS (NAPHTHALENE, ANTHRACENE, ETC.).
401 MIXED CYCLOIDS.
ORGANOMETALLIC AND ALLIED COMPOUNDS.
411 General.
412 Special (alphabetically by symbol of element according to scheme under QD181).
415 **Chemistry of vital products.**
See also QH345, Chemical properties of living matter.
416 TERPENES AND CAMPHORS. ESSENTIAL OILS.
See also TP958, Essences (chemical technology).
419 Resins.
421 ALKALOIDS.
See also QK865-866, Chemical analysis of plants; QP801.P7, Pto-
maines and leucomaines.
431 PROTEIDS.
See also QP551, Physiological chemistry.
441 COLORED COMPOUNDS.
See also TP910-929, Dyes.
449 Miscellaneous.

PHYSICAL AND THEORETICAL CHEMISTRY.

(Periodicals, Societies, etc., in QD1.)

- 453 General works.
- 457 Laboratory manuals.
- 461 **Atomic theory and laws of chemical combination.**
- ATOMIC WEIGHTS.
- 463 General.
- 464 Of individual elements (alphabetically by chemical symbol).
- CHEMICAL ELEMENTS.
- 466 Nature and properties.
- 467 Classification. Periodic Law, etc.
- 471 Chemical compounds—Structure and formulæ.
- 481 **Stereochemistry.**
- 499 Miscellaneous speculations.
- 501 **Conditions and laws of chemical change.**
 - Chemical equilibrium.
 - Chemical affinity.
 - Velocity of reaction.
- 511 **Thermochemistry.**
- 515 Chemistry of high and low temperatures (general).
- 516 Combustion, flame, explosion.
- 517 Dissociation.
- 518 Melting and boiling points.
- 521 Electric furnace operations.
- 526 Fractional distillation.
 - See also TP590-607, Distilling.
- 531 Manipulation of gases and vapors.
- 533 Vapor densities.
- 535 Liquefaction of gases.
- 536 Research at low temperatures.
- Theory of solution.**
 - Dictionaries of solubilities in QD66.
- 541 General.
- Special topics.
- 543 Solubility, osmotic pressure, diffusion, etc.
 - See also QC183-189.
- 545 Freezing points and vapor pressures. Determination of molecular weight.
- 548 Supersaturated solutions. Crystallization, etc.
- 549 Colloidal state.

Electrolysis.

See also QD115, Electrolytic analysis; QD263, Electrosynthesis of organic compounds; Electro-chemical industries in TK.

- 553 General works.
- 557 Laboratory manuals.
- 559 Apparatus, etc.
- Special topics.
- 561 Electrolytic dissociation.
- Migration of ions.
- Measurement of ionic velocity.
- Conductivity of electrolytes.

601 **PHOTOCHEMISTRY.**

See also TR200, Photographic chemistry.

CRYSTALLOGRAPHY.

See also QE372, Descriptive mineralogy.

- 901 PERIODICALS, SOCIETIES, ETC.
- 902 Dictionaries and Nomenclature.
- 903 History.
- 905 General works.
- 911 **Geometrical and Mathematical Crystallography.**
- 913 Diagrams, etc.
- Outlines, syllabi, etc.
- 915 Goniometric measurements.
- 921 Crystal structure and growth.
- 931 **Physical Properties of Crystals.**
- 933 Cohesion, elasticity, cleavage, hardness.
- 935 Etching.
- 937 Thermal properties.
- 939 Electric properties.
- See also QC595, Pyro- and Piezo-electricity.
- 941 Optical properties.
- See also QC445.
- 951 **Chemical Crystallography.**
- 999 Miscellany and curiosa.

Preliminary.
July 1, 1905.

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CLASSIFICATION

CLASS QE: GEOLOGY

(INCLUDING MINERALOGY, PETROLOGY, AND
PALEONTOLOGY)

CLASS QE

GEOLOGY

Economic geology and mineral resources in TN.

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 DICTIONARIES.
- 7 Nomenclature.
HISTORY.
- 11 General.
- 13 Local (by countries, alphabetically).
BIOGRAPHY OF GEOLOGISTS.
- 21 Collective.
- 22 Individual.
- 23 Directories.
- 25 EARLY WORKS.
See also QE362, 709, 710.
- 26 GENERAL TREATISES.
- 28 Elements.
- 29 Rudiments.
- 31 POPULAR DESCRIPTIVE WORKS.
- 35 ESSAYS, LECTURES, ADDRESSES, ETC.
- 40 STUDY AND TEACHING.
- 41 Outlines, syllabi, etc.
- 43 Models, diagrams, etc.
- 45 Field work.
- 49 Laboratories.
- 51 Museums (catalogues, guides, descriptions).
See also QE386, 716.
- 55 Dealers' catalogues of specimens.
- 61 Surveys (History, organization, etc.).
Geographical Divisions.
Official publications stand at the head of each division.
- 71 North America.
United States.
- 73 Surveys, before 1861.
- 74 Surveys, 1865-1879.
- 75 United States Geological Survey.
- 77 Miscellaneous.

Geographical Divisions.**North America.****United States—Continued.****By States.**

The second number assigned to each State is used for special localities (i. e., counties or physiographic divisions) arranged alphabetically.

81-82	Alabama.
83-84	Alaska.
85-86	Arizona.
87-88	Arkansas.
89-90	California.
91-92	Colorado.
93-94	Connecticut.
95-96	Delaware.
97-98	District of Columbia.
99-100	Florida.
101-102	Georgia.
103-104	Idaho.
105-106	Illinois.
107-108	Indian Territory.
109-110	Indiana.
111-112	Iowa.
113-114	Kansas.
115-116	Kentucky.
117-118	Louisiana.
119-120	Maine.
121-122	Maryland.
123-124	Massachusetts.
125-126	Michigan.
127-128	Minnesota.
129-130	Mississippi.
131-132	Missouri.
133-134	Montana.
135-136	Nebraska.
137-138	Nevada.
139-140	New Hampshire.
141-142	New Jersey.
143-144	New Mexico.
145-146	New York.
147-148	North Carolina.
149-150	North Dakota.
151-152	Ohio.
153-154	Oklahoma Territory.
155-156	Oregon.

Geographical Divisions.**North America.****United States—Continued**

157-158	Pennsylvania.
159-160	Rhode Island.
161-162	South Carolina.
163-164	South Dakota.
165-166	Tennessee.
167-168	Texas.
169-170	Utah.
171-172	Vermont.
173-174	Virginia.
175-176	Washington.
177-178	West Virginia.
179-180	Wisconsin.
181-182	Wyoming.
185	Canada.
186	British Columbia.
189	Labrador.
190	Acadia.
191	New Brunswick.
192	Newfoundland.
193	Nova Scotia.
195	Ontario.
196	Quebec.
199	Other.
	Mexico.
201	General.
203	Local.
210	Central America.
211	British Honduras.
212	Costa Rica.
213	Guatemala.
214	Honduras.
215	Nicaragua.
216	Salvador.
220	West Indies.
221	Bahamas.
222	Cuba.
223	Haiti.
224	Jamaica.
225	Porto Rico
226	Other.
229	Bermudas.

Geographical Divisions—Continued.

- 230 South America.
- 231 Argentina.
- 233 Bolivia.
- 235 Brazil.
- 237 Chile.
- 239 Colombia.
- 241 Ecuador.
- 243 Guiana.
- 245 Paraguay.
- 247 Peru.
- 249 Uruguay.
- 251 Venezuela.
- 260 Europe.
- 261 Great Britain (general).
- 262 England and Wales (alphabetically by districts).
- 264 Scotland.
- 265 Ireland.
- 266 Austria. Bohemia. Hungary.
- 268 France.
- 269 Germany.
- 271 Greece.
- 272 Italy.
- 273 Netherlands (Holland).
- 274 Belgium.
- 275 Luxembourg.
- 276 Russia.
- 277 Poland.
- Scandinavia.
- 278 Denmark.
- 279 Iceland.
- 281 Norway.
- 282 Sweden.
- 283 Spain.
- 284 Portugal and Azores.
- 285 Switzerland. Alps.
- 287 Turkey and Balkan States.
- Asia.
- 290 Afghanistan.
- 291 Arabia.
- 292 Baluchistan.
- 294 China.
- 295 India. Ceylon.
- 296 Indo-China.

Geographical Divisions.**Asia—Continued.**

- 301 Indonesia.
- 302 Philippines.
- 304 Japan.
- 305 Korea.
- 307 Persia.
- 315 Siberia.
- 316 Turkey in Asia.
- 317 Armenia.
- 318 Palestine. Syria.
- 320 Africa.
- 321 Abyssinia.
- British.
- 322 Cape Colony.
- 323 Natal.
- 324 Transvaal. Orange.
- 325 Central and South.
- 326 East Africa.
- 327 Other possessions alphabetically.
- 328 Egypt.
- French.
- 329 Algeria, Tunis.
- 330 Madagascar.
- 331 Other.
- 332 German.
- 334 Italian.
- 335 Kongo.
- 337 Portuguese.
- 338 Spanish.
- 339 Other countries alphabetically.
- 340 Australia.
- 341 New South Wales.
- 342 New Zealand.
- 343 North Australia.
- 344 Queensland.
- 345 South Australia.
- 346 Tasmania.
- 347 Victoria.
- 348 West Australia.
- 349 Pacific islands.

MINERALOGY.

Crystallography in QD901-999.

- 351 PERIODICALS, SOCIETIES, ETC.
- 353 COLLECTIONS.
- 355 DICTIONARIES. NOMENCLATURE.
- 359 HISTORY.
- 361 BIOGRAPHY OF MINERALOGISTS.
- 362 EARLY WORKS.
- 363 TREATISES—GENERAL.
- 365 ELEMENTS AND POPULAR WORKS.
- 366 STUDY AND TEACHING.

Determinative Mineralogy.

See also QD87, Blowpipe; Assaying in TN.

- 367 Laboratory manuals.
- 369 Miscellaneous special topics.
See subdivisions of QE389 for reactions of individual groups.

Descriptive Mineralogy.

- 372 General.
- GEOGRAPHICAL DIVISIONS.
- 375 United States.
- 376 Canada.
- 377 Mexico and Central America.
- 378 West Indies.
- 379 South America.
- 381 Europe.
- 382 Asia.
- 383 Africa.
- 384 Australia.
- 385 Pacific islands.
- 386 MUSEUMS (Description and catalogues).
- 387 Dealers' catalogues of specimens.
- 388 Classification.
- 389 Special groups of minerals (Descriptive and determinative).
 - .1 Native elements.
 - .2 Sulphides, selenides, tellurides, arsenides, antimonides.
 - .3 Sulpho-salts (sulpharsenites, sulphantimonites, sulpho-bismuthites).
 - .4 Haloids (chlorides, bromides, iodides, fluorides).
 - .5 Oxides.
 - .6 Oxygen salts.

Alphabetically, or in classes, thus:

- .61 Carbonates.
- .62 Silicates, titanates.

- 389 Special group of minerals.
- .6 Oxygen salts—Continued.
 Alphabetically, or in classes, thus—Continued.
 .63 Niobates, tantalates.
 .64 Phosphates, arsenates, vanadates, antimonates,
 nitrates.
 .65 Borates, uranates.
 .66 Sulphates, chromates, tellurates.
 .67 Tungstates, molybdates.
- .7 Salts of organic acids; oxalates, mellates, etc.
- .8 Hydrocarbon compounds.
- 391 Descriptions of single minerals.
 (Alphabetically by name.)
- Precious stones.**
 See also TS750-757, Jewels; Mining of precious stones in TN.
- 392 General works.
- 393 Diamonds.
- 394 Other precious stones (alphabetically).
- 395 **Meteorites.**
 See also QB755.
- 399 Miscellany.

PETROLOGY.

See also Building stone in TN.

- 421 COLLECTIONS.
- 425 NOMENCLATURE AND CLASSIFICATION.
- 427 HISTORY.
- 431 TREATISES AND TEXT-BOOKS.
- 433 LABORATORY MANUALS.
- 434 Microscopic analysis of rocks.
- 435 Instruments and technique.
- 438 Chemical analysis of rocks.
- GEOGRAPHICAL DIVISIONS.
- 445 United States.
- 446 Canada.
- 447 Mexico and Central America.
- 448 West Indies.
- 449 South America.
- 451 Europe.
- 452 Asia.
- 453 Africa.
- 454 Australia.
- 455 Pacific islands.
- 461 Igneous rocks.
- 471 Sedimentary rocks.
- 475 Crystalline schists and Metamorphic rocks.
- 495 Other.
- 499 Miscellany.

DYNAMIC AND STRUCTURAL GEOLOGY.

(Physical and tectonic.)

- 501 **GENERAL WORKS.**
- 505 **Essays and miscellany.**
- 506 **Geological cosmogony.**
- 507 **Deluge, etc.**
- 508 **Age of the earth. Geologic time.**
- 509 **Interior of the earth (temperature, etc.).**
- 511 **Earth's crust.**
- Volcanoes and earthquakes.**
- 521 **General.**
- VOLCANOES.**
- 522 **General.**
- 523 **Individual (alphabetically).**
- 524 **Western hemisphere (including Hawaii).**
- 527 **Eastern hemisphere.**
- 528 **Geysers, hot springs, etc.**
- 529 **Miscellany.**
- EARTHQUAKES. SEISMOLOGY.**
- Building construction in volcanic regions in TH.**
- 531 **Periodicals. Societies.**
- 532 **Observations (i. e., Observatory publications).**
- 533 **Early works before 1800.**
- 534 **General works since 1800.**
- Special.**
- 535 **Western hemisphere.**
- 536 **Eastern hemisphere—Europe.**
- 537 **—Asia, etc.**
- 539 **Miscellaneous topics.**
- 541 **Observatories and instruments.**
- 565 **CORAL ISLANDS AND REEFS.**
- 571 **Erosion and deposition.**
- See also Physical geography GB.**
- 576 **GLACIERS AND GLACIAL ACTION.**
- See also Glacial epoch QE697.**
- 578 **Moraines.**
- 581 **Aqueous erosion. Sedimentation and deposition.**
- 597 **Aerial erosion.**
- Structural geology.**
- 601 **GENERAL WORKS.**
- 602 **Stratification.**
- 605 **Jointing and cleavage.**
- 606 **Faulting and folding.**
- 608 **Metamorphism.**
- 611 **Veins, dikes, necks, bosses, etc.**
- See also Ore deposits in TN.**
- 621 **Mountain building.**

STRATIGRAPHIC GEOLOGY.

- 651 General works.
653 Archean.
Paleozoic.
654 General.
655 [Algonkian.]
656 Cambrian.
661 Silurian.
662 Lower (Ordovician).
663 Upper (Silurian).
665 Devonian (Old red sandstone).
671 Carboniferous.
672 Lower.
673 Middle (Coal measures).
See also Coal in TN.
674 Upper (Permian, Dyas).
Mesozoic.
675 General.
676 Triassic.
Lower.
678 Middle.
679 Upper (Rhætic, Infra-liassic, *Avicula contorta*).
681 Jurassic.
Lower (Lias).
683 Middle (Oolites).
Upper.
685 Cretaceous (Greensand, Gault, Wealden beds).
Lower.
Middle.
688 Upper.
690 **Cenozoic** (Tertiary and Quaternary).
TERTIARY.
691 General.
692 Eocene.
693 Oligocene.
694 Miocene.
695 Pliocene.
QUATERNARY.
696 Pleistocene.
697 Glacial epoch.
698 Cause of the glacial epoch.
699 Recent.

PALEONTOLOGY.

- 701 PERIODICALS, SOCIETIES, ETC.
- 702 COLLECTED WORKS.
- 703 DICTIONARIES.
- 705 HISTORY.
- 707 BIOGRAPHY OF PALEONTOLOGISTS.
- EARLY WORKS.
- 709 Before 1790.
- 710 1790–1830.
- GENERAL WORKS SINCE 1830.
- 711 Stratigraphic.
- 713 Systematic (both Zoological and Botanical).
- 714 Pictorial works (Icones).
- 715 STUDY AND TEACHING.
- 716 Museum guides and catalogues of collections, general.
 [Special catalogues are classified with the special subject, e. g.,
 British Museum catalogue of fossil fishes in QE 851.]
- 718 COLLECTING AND PRESERVATION.
- 719 ESSAYS, LECTURES, ADDRESSES, ETC.
- 721 Distribution of life forms.
 Evolution.
 See also QH365–368, Evolution (General biology).
- Stratigraphic Divisions** (general and zoological).
 See also corresponding classes in Stratigraphic geology, QE651–699.
- 724 Archean (*Eozoon canadensis*).
- 725 PALEOZOIC.
- 726 Cambrian.
- 727 Silurian.
- 728 Devonian.
- 729 Carboniferous.
- 730 Permian.
- 731 MESOZOIC.
- 732 Triassic.
- 733 Jurassic.
- 734 Cretaceous.
- 735 CENOZOIC.
- 736 Tertiary.
- 737 Eocene.
- 738 Oligocene.
- 739 Miocene.
- 740 Pliocene.
- 741 Quaternary.

Geographical Divisions (general and zoological).

- 744 Arctic.
- 745 North America.
 - United States.
- 746 General.
- 747 By States, alphabetically.
- 748 Canada.
- 749 Mexico.
- 750 West Indies.
- 751 Central America.
- 752 South America (by countries, alphabetically).
- Europe.
 - 754 Great Britain.
 - 755 Continental countries (alphabetically).
- 756 Asia (by countries, alphabetically).
- 757 Africa.
- 758 Australia.
- 759 Pacific islands.
- 760 Antarctic.

PALEOZOOLOGY.

- 761 TREATISES.
- 763 Popular works.
- INVERTEBRATES.
- 770 General.
- Protozoa.**
 - 772 Foraminifera.
 - 773 Radiolaria.
 - 775 Porifera (sponges).
 - 777 Cœlenterata.
 - 778 Corals = Anthozoa.
 - 779 Graptolites, etc. = Hydrozoa (including Stomatopods).
- 781 **Echinodermata.**
 - 782 Crinoidea.
 - 783 Other subdivisions, alphabetically:
 - e. g., .A7 Asteroidea (Star-fishes).
 - .B6 Blastoidea.
 - .C9 Cystoidea.
 - .E2 Echinoidea.
 - .H7 Holothuroidea.
 - .O6 Ophiuroidea.
- 791 **Vermes.**

- 795 **Molluscoidea.**
 Brachiopoda.
 796 General.
 797 Subdivisions, alphabetically.
 e. g., .D6 Discinidae.
 .L7 Lingulidae.
 .O2 Obolidae.
 .P9 Productidae.
 .R5 Rhynchonellidae.
 .S7 Spiriferidae.
 .S9 Strophomenidae.
 .T3 Terebratulidae.
 .T8 Trimerellidae.
 .V9 Volborthia.
 Polyzoa (Bryozoa).
 798 General.
 799 Subdivisions, alphabetically.
 801 **Mollusca** (Fossil shells).
 [802, 803, 804 may be used later for stratigraphic sub-
 divisions, viz. Paleozoic, Mesozoic, Cenozoic.]
 805 Amphineura.
 806 Cephalopoda.
 807 Subdivisions, alphabetically:
 e. g. .A5 Ammonites.
 .B4 Belemnites.
 .C65 Clymenia.
 .G56 Glyphioceras.
 .L7 Liparoceratida.
 .L98 Lytoceras.
 .O8 Orthoceras.
 .P69 Placentoceras.
 808 Gasteropoda.
 809 Subdivisions, alphabetically:
 e. g. .N9 Nucleobranchiata (or Heteropoda).
 .O6 Opisthobranchiata.
 .P7 Prosobranchiata.
 .P8 Pteropoda.
 .P9 Pulmonata.
 811 Lamellibranchiata (= Pelecypoda, or Acephala, or Bi-
 valves).
 812 Subdivisions, alphabetically:
 e. g. .C9 Cypricardia.
 .L6 Leptonacea.
 .M7 Modiola.
 .N15 Naiadites.
 .O8 Ostrea.
 .P4 Pecten.
 813 Scaphopoda.

- 815 **ARTHROPODA.**
816 **Crustacea.**
817 Subdivisions, alphabetically:
 .A6 Arthrostraca, Amphipoda.
 .A7 Arthrostraca, Isopoda.
 .A8 Arthrostraca, Anisopoda.
 .C5 Cirripedia (= Barnacles).
 .C7 Copepoda.
 .C9 Cumacea.
 .D2 Decapoda, Macrura (= Lobsters, prawns, etc.)
 .D3 Decapoda, Brachyura (= Crabs).
 .L5 Leptostraca.
 .O8 Ostracoda.
 .P5 Phyllopoda.
 .S3 Schizopoda.
 .S8 Stomatopoda.
- 821 **Trilobites.**
823 Allied groups, alphabetically:
 .E8 Eurypterida.
 .L7 Lingualatulida.
 .P2 Pantopoda.
 .T2 Tardigrada.
 .X7 Xiphosura.
- 825 **Arachnida.**
826 Subdivisions, alphabetically.
 .A2 Acarida (or Acari).
 .A6 Araneida.
 .C5 Chernetida (or Pseudoscorpiones).
 .P3 Pedipalpi.
 .P5 Phalangida (or Opiliones).
 .S4 Scorpionida.
 .S6 Solifugae.
- 828 **Myriapoda.**
829 Subdivisions, alphabetically.
831 **Insects.**
832 Subdivisions, alphabetically:
 .C6 Coleoptera.
 .D6 Diptera.
 .H4 Hemiptera.
 .H9 Hymenoptera.
 .L5 Lepidoptera.
 .N5 Neuroptera.
 .O7 Orthoptera.
 .T8 Trichoptera.

VERTEBRATES.

841

General.

845

Fossil footprints (Ichnology).**Fishes.**

851

General.

852

Subdivisions, alphabetically:

- .A7 Arthrodira.
- .C8 Cyclostomi.
- .D5 Dipnoi.
- .G2 Ganoidei.
- .H7 Holocephali.
- .O5 Ostracodermi.
- .P6 Plagiostomi.
- .T2 Teleostei.

Reptiles.

861

General.

862

Subdivisions alphabetically:

- .A6 Anomodontia.
- .C5 Chelonia (tortoises and turtles).
- .C8 Crocodylia.
- .D5 Dinosauria.
- .I2 Ichthyosauria.
- .I2 Lacertilia (lizards).
- .O6 Ophidia (snakes).
- .O7 Ornithosauria (or Pterosauria).
- .P4 Plesiosauria.
- .P8 Pythonomorpha.
- .R4 Rhipidoglossa.
- .R5 Rhynchocephalia.

Batrachia (or Amphibia).

867

General.

868

Subdivisions alphabetically:

- .A6 Apoda.
- .C2 Caudata (or Urodela).
- .E2 Ecaudata (or Anura).
- .S8 Stegocephala (or Labyrinthodontia).

Birds.

871

General.

872

Subdivisions alphabetically:

- .A1 Accipitres.
- .A2 Æpyornithes.
- .A3 Alce.
- .A4 Alectorides (including Cariama).
- .A5 Anisodactyle (including Podargide and Steatornis).
- .A6 Anseres (including Phœnicopteri and Palamediidæ).
- .A7 Apteryges.
- .C3 Casuarii.
- .C6 Coccyges.
- .C7 Columbæ.
- .C8 Crypturi.
- .C9 Cypseli.

VERTEBRATES.

Birds—Continued.

General.

872 Subdivisions, alphabetically—Continued.

- .D5 Dinornithes.
- .F9 Fulicariae.
- .G1 Gallinae.
- .G2 Gaviae.
- .H5 Herodiones.
- .H6 Heterodactylae.
- .I3 Impennes.
- .L7 Limicolae.
- .O2 Odontolcae.
- .O4 Odontornae.
- .O6 Opisthocomi.
- .P2 Passeres.
- .P5 Pici.
- .P7 Psittaci.
- .P8 Pterocletes.
- .P9 Pygopodes.
- .R4 Rhee.
- .S2 Saururæ.
- .S6 Steganopodes.
- .S7 Stereornithes.
- .S8 Striges.
- .S9 Struthiones.
- .T8 Tubinares.
- .Z9 Zygodactylæ.

875 Fossil eggs.

Mammals.

881 General.

882 Subdivisions alphabetically:

- .C1 Carnivora.
- .C4 Carnivora-Pinnipedia.
- .C5 Cetacea.
- .C8 Chiroptera.
- .E2 Edentata.
- .I5 Insectivora.
- .M3 Marsupialia.
- .M6 Monotremata.
- .M8 Multituberculata.
- .P7 Primates.
- .R6 Rodentia.
- .S6 Sirenia.
- .T5 Tillodontia.
- Ungulata:
 - .U2 General.
 - .U3 Artiodactyla.
 - .U6 Perissodactyla.
 - .U7 Proboscidea.
 - .U8 Other.

899 Fossils of doubtful affinity or origin.

PALEOBOTANY.

- 901 PERIODICALS, SOCIETIES AND COLLECTIONS.
- 903 NOMENCLATORS.
- 904 History.
- 905 TREATISES AND TEXTBOOKS.
- 907 Pictorial works (Icones).
- 908 Catalogues and Description of Collections.
- 911 Essays, Lectures, Addresses.
- Stratigraphic Divisions.**
- 915 PALEOZOIC.
- 916 Cambrian.
- 917 Silurian.
- 918 Devonian.
- 919 Carboniferous.
- 920 Permian.
- 921 MESOZOIC.
- 922 Triassic.
- 923 Jurassic.
- 924 Cretaceous.
- 925 CENOZOIC.
- 926 Tertiary.
- 927 Eocene.
- 928 Oligocene.
- 929 Miocene.
- 930 Pliocene.
- 931 Quaternary.
- Geographic Divisions.**
- 934 Arctic.
- 935 North America.
- United States.
- 936 General.
- 937 By States, alphabetically.
- 938 Canada.
- 939 Mexico.
- 940 West Indies.
- 941 Central America.
- 942 South America.
- 943 Europe.
- 944 Great Britain.
- 945 Continental countries alphabetically.
- 946 Asia (by countries alphabetically).
- 947 Africa.
- 948 Australia.

Geographic Divisions—Continued.

949 Pacific islands.

950 Antarctic.

Systematic Divisions.

955 ALGÆ.

958 FUNGI (including Lichens).

959 MOSSES.

960 PTERIDOPHYTES.

961 Ferns.

965 Calamariæ.

Equisetæ.

Calamites.

971 Lycopods.

Lepidodendron.

Sigillaria.

Selaginella.

975 GYMNOSPERMS.

976 Cycadeaceæ.

977 Conifera.

980 ANGIOSPERMS.

981 Monocotyledons.

983 Dicotyledons.

989 Plants of unascertained position.

991 Fossil woods.

995 Fossil fruits and seeds.

Preliminary
July 1, 1905

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CLASSIFICATION

CLASS QH: NATURAL HISTORY

(INCLUDING MICROSCOPY AND
GENERAL BIOLOGY)

CLASS QH

NATURAL HISTORY

PERIODICALS, SOCIETIES, ETC. (by language).

- 1 English.
- 3 French.
- 5 German
- 7 Other.

9 COLLECTIONS.

11 VOYAGES AND EXPEDITIONS.

See also Q115, Scientific expeditions; QK5, Botanical results; QL5, Zoological results; G150-420, General Voyages and Expeditions.

13 DICTIONARIES AND ENCYCLOPEDIAS.

HISTORY.

- 15 General.
- 21 Local (by countries, alphabetically).

BIOGRAPHY OF NATURALISTS.

- 26 Collective.
- 31 Individual.

41 PRE-LINNÆAN WORKS.

See also QK41; QL41.

43 WORKS OF LINNÆUS.

44 LINNÆANA.

45 POST-LINNÆAN GENERAL WORKS.

46 PICTORIAL WORKS (Icones).

47 SCHOOL TEXT-BOOKS.

48 RUDIMENTS. JUVENILE LITERATURE.

51 STUDY AND TEACHING.

- 53 Outlines, syllabi, etc. Nature study manuals.

COLLECTING AND PRESERVATION.

- 61 General.

- 63 Apparatus.

- 68 Aquaria.

See also QL78-79, Aquaria (zoology); QH275, Aquatic organisms.

MUSEUMS."

- 70 General.

- 71 Individual (alphabetically).

81 ESSAYS, LECTURES, ADDRESSES, ETC.

- 82 Natural history of the Bible.

83 CLASSIFICATION, NOMENCLATURE, TERMINOLOGY.

"Descriptions and catalogues only; serial publications in QH1-7, 301.

Geographical distribution.

- 84 General works.
- .1 Arctic regions.
- .2 Antarctic regions.
- .3 Temperate regions.
- .5 Tropical regions.
- Physiographic divisions.

LAND.

- 85 Islands.
- 86 Forests.
- 87 Mountains.
- 88 Plains.
- 89 Deserts.
- 90 Caves.
- Subterranean waters.

OCEAN.

- 91 Atlantic.
- 93 Indian.
- 94 Pacific.
- 96 FRESH WATER.
- 97 Streams.
- 98 Lakes.
- 99 Springs.

Topographical Divisions.

- 101 America.
- 102 North America.
- 104 United States.
- 105 By States, alphabetically.
- 106 Canada.
- 107 Mexico.
- 108 Central America.
- 109 West Indies (alphabetically).
- 111 South America.
- 113 Argentina.
- 115 Bolivia.
- 117 Brazil.
- 119 Chile.
- 121 Colombia.
- 123 Ecuador.
- 125 Guiana.
- 127 Paraguay.
- 128 Peru.
- 129 Uruguay.
- 130 Venezuela.

Topographical Divisions—Continued.

- 135 Europe.
- 137 Great Britain.
- 137 General.
- 138 England (localities alphabetically).
- 141 Scotland.
- 143 Ireland.
- 145 Austria.
- 147 France.
- 149 Germany.
- 151 Greece.
- 152 Italy.
- Netherlands.
- 157 Belgium.
- 159 Holland.
- 161 Russia.
- 162 Poland.
- Scandinavia.
- 165 Denmark.
- 166 Iceland.
- 168 Norway.
- 169 Sweden.
- 171 Spain.
- 173 Portugal.
- 175 Switzerland. Alps.
- 177 Turkey and the Balkan States.
- 179 Asia.
- 181 China.
- 183 India.
- 184 Ceylon.
- 185 Indochina.
- 186 Indonesia.
- 187 Philippines.
- 188 Japan.
- 189 Persia.
- 191 Siberia.
- 192 Turkey in Asia.
- 193 Other.
- Africa.
- 194 General.
- 195 Countries alphabetically.
- 197 Australia.
- 198 Pacific islands.

MICROSCOPY

- 201 PERIODICALS, SOCIETIES, ETC.
- 203 DICTIONARIES.
- 205 HANDBOOKS AND COMPREHENSIVE TREATISES.
- 207 MICROSCOPICAL METHODS.
- 211 **Apparatus. Microscopes** (general).
 - See also QC371, Optical instruments.
- 213 Accessories and their use.
- 215 Illuminating apparatus.
- 217 Apparatus for polarization.
- 219 Commercial publications and trade lists.
- 221 Micro-chemistry.
 - See also QK53, Laboratory manuals (Botany).
- 231 **Preparation and mounting of objects.**
- 233 Microtome.
- 235 Fixation.
- 237 Staining.
- 239 Mounting.
- 245 Photography (of natural objects in general).
 - See also TR, Photography.
- 251 **Photomicrography.**
 - See also TR910, Reduction of pictures (Reproduction).
- 261 Pictorial works.
- GENERAL MICROSCOPIC OBSERVATIONS.
- 271 Before 1800.
- 273 After 1800.
- 275 **AQUATIC ORGANISMS.**
 - See also QH68, Aquaria (general); QL78-79, Aquaria (Zoology);
 - QH91-95, QL121-137, Marine biology; QH96-99, QL141-147, Fresh-
 - water biology.
- 277 Recreations. Popular works.

GENERAL BIOLOGY.

301 PERIODICALS, SOCIETIES, ETC.

302 COLLECTIONS.

305 HISTORY.

See also QH361.

306 GENERAL WORKS BEFORE 1860.

307 COMPREHENSIVE TREATISES.

309 POPULAR WORKS.

311 ESSAYS, LECTURES, ADDRESSES, ETC.

313 Miscellaneous speculations.

315 STUDY AND TEACHING.

316 Elementary text-books.

317 Laboratory manuals.

321 Laboratories.

323 Biological stations.

324 Methods of research; apparatus.

See also QH201-251, Microscopy.

Life.

325 Origin and beginnings.

Spontaneous generation, etc.

331 Nature and properties of living substance (including earlier works on protoplasm).

335 Molecular structure.

341 Vital force, etc.

343 Comparative study of living and non-living matter.
(Response, etc.)

345 Chemical properties.

See also QD415, Chemistry of vital products; QP501-801, Physiological chemistry.

347 Differences and resemblances between plants and animals.

351 General morphology.

See also QK641, Plant morphology; QL355, Animal morphology.

Evolution. Origin of species.

Paleontological works in QE.

361 History.

363 Works before Darwin.

365 WORKS OF DARWIN (alphabetically by title).

366 GENERAL TREATISES (since 1859).

367 Popular works. Essays, lectures, addresses, etc.

368 DESCENT OF MAN. Man's place in nature.

369 Miscellaneous criticisms and speculations.

371 Miscellaneous special topics.

- 401 **Variation.**
- 405 Statistical methods.
 - Special results.
- 406 Plants.
- 408 Animals.
- 411 Experimental study.
- 421 **Hybridization.**
- 423 Plants.
 - See also SB123, Breeding, crossing, selection, etc. (Horticulture).
- 425 Animals.
 - See also SF105, Breeding (Animal industry).
- 431 **Heredity.**
- 471 **Reproduction.**
 - See also QK825-827, 925-929, Plants; QP251-273, Animals.
- 475 Asexual.
- 477 Fission.
- 479 Budding.
- 481 Sexual.
- 485 Fertilization.
- 487 Parthenogenesis.
- 489 Alternation of generations.
- 491 **Development.**
 - See also QK665, Embryology (Botany); QL951-979, Embryology (Zoology).
- 499 **Regeneration.**
- 501 **General physiology (of the individual).**
- 511 Interchange of energy (*Kraftwechsel*).
 - Growth, movements, performance of work in general.
 - See also QK731, 771; QP301.
- 521 **Metabolism (*Stoffwechsel*).**
 - Food, assimilation, respiration, etc.
 - See also QK881-898, Metabolism (plants); QP171, Metabolism (animals).
- 531 **Miscellaneous topics.**
- 541 **General Ecology.**
 - See also QK901-929, Ecology (Botany).
- 543 Acclimatization.
- 544 Phenology.
- 546 Adaptation.
 - Protective mechanisms.
- 548 Symbiosis.
- 549 Colonies.
- 556 **Degeneration.**
- 559 **Death.**
 - See also QP87.

The Cell. General cytology.

See also QK725, The vegetable cell and tissues.

581 General works.

591 Protoplasm.
Cp. QH331.

595 Nucleus.

597 Centrosome.

599 Chromatin.

601 Cell membrane.

605 Cell division.
Karyokinesis.

611 Physical properties.

615 Osmosis.
See also QD543, Theory of solution.

621 Turgescence.

631 Physiological properties.

635 Production of heat.

641 Production of light. Phosphorescence.

645 Production of electricity.

647 Irritability (of the cell alone).

Influence of physical and chemical agencies.

See also QK731-759, Growth (Plant physiology).

651 Light.

653 Temperature.

655 Electricity.

657 Gravity.

659 Chemicals.

671 Pathological changes; death.
See also QH559.

Preliminary
July 1, 1906

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CLASSIFICATION

CLASS QK: BOTANY

CLASS Q K
BOTANY

Horticulture in SB; Forestry in SD.

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 VOYAGES AND EXPEDITIONS.
- 7 ENCYCLOPEDIAS.
- 9 DICTIONARIES.
- 11 INDEXES. NOMENCLATORS.
- 13 INDEXES OF POPULAR NAMES.
HISTORY.
- 15 General.
- 21 Local (by countries, alphabetically).
BIOGRAPHY OF BOTANISTS.
- 26 Collective.
- 31 Individual.
- 35 DIRECTORIES.
- 41 EARLY WORKS (before 1753).
See also QH 41.
WORKS AFTER 1753.
- 45 General works.
- 47 Text books.
- 49 Rudiments.
- 51 STUDY AND TEACHING.
- 52 Outlines, syllabi, etc.
- 53 Laboratory manuals.
See also QK 673.
- 55 Charts.
- 57 Plant analysis blanks.
- 61 COLLECTING AND PRESERVATION.
BOTANICAL GARDENS.^a
- 71 General.
- 73 Individual.
- HERBARIA.^a
- 75 General.
- 77 Individual.
- 78 LABORATORIES.^a
- 79 MUSEUMS.^a

^aDescriptions and catalogues only; serial publications in QK 1.

- 81 ESSAYS, LECTURES, ADDRESSES, ETC.
- 83 Plant lore.
- 84 Floral emblems. Language of flowers.
- 85 National flowers.
- 87 Curiosa.
- 91 WORKS OF LINNÆUS (botany only.)
See also QH 43-44, General works of Linnæus and Linnæana.
- 92 LINNÆAN SYSTEM—MINOR WORKS.
- NATURAL SYSTEMS.
- 93 General.
- 94 Minor works.
- 95 Discussion and comparison of systems.
- 96 Nomenclature.
- 97 COMPREHENSIVE SYSTEMATIC WORKS.
- 98 PICTORIAL WORKS (ICONES).
- 99 MEDICAL BOTANY (general only).
See also RS 321-331, Drugs of the vegetable kingdom.
- Geographical Distribution (Plant geography).**
- 101 General works.
Special physiographic regions with Ecology.
- Topographical Divisions.**
- 110 North America.
- 112 Illustrations of North American flora.
(Not systematically arranged).
- 115 United States.
By regions:
- 117 Northeastern.
- 118 Popular handbooks.
- 121 New England.
- 125 Southeastern.
- 139 Rocky Mountains, Sierras, and Plateaus.
- 141 Great Basin.
- 142 Southwest.
- 143 Pacific coast.
By States:
- 145 Alabama.
- 146 Alaska.
- 147 Arizona.
- 148 Arkansas.
- 149 California.
- 150 Colorado.
- 151 Connecticut.
- 152 Delaware.
- 153 District of Columbia.
- 154 Florida.

Topographical Divisions.**North America.****United States.****By States—Continued.**

155	Georgia.
156	Idaho.
157	Illinois.
158	Indian Territory.
159	Indiana
160	Iowa.
161	Kansas.
162	Kentucky.
163	Louisiana.
164	Maine.
165	Maryland.
166	Massachusetts.
167	Michigan.
168	Minnesota.
169	Mississippi.
170	Missouri.
171	Montana.
172	Nebraska.
173	Nevada.
174	New Hampshire.
175	New Jersey.
176	New Mexico.
177	New York.
178	North Carolina.
179	North Dakota.
180	Ohio.
181	Oklahoma Territory.
182	Oregon.
183	Pennsylvania.
184	Rhode Island.
185	South Carolina.
186	South Dakota.
187	Tennessee.
188	Texas.
189	Utah.
190	Vermont.
191	Virginia.
192	Washington.
193	West Virginia.
194	Wisconsin.
195	Wyoming.

Topographical Divisions.**North America—Continued.**

- 201 Canada.
- 211 Mexico.
- 215 Central America.
- 216 British Honduras.
- 217 Costa Rica.
- 218 Guatemala.
- 219 Honduras.
- 220 Nicaragua.
- 221 Salvador.
- 225 West Indies.
- 226 Bahamas.
- 227 Cuba.
- 228 Haiti.
- 229 Jamaica.
- 230 Porto Rico.
- 231 Other.

- 232 Bermudas.
- 241 South America.

- 261 Argentina.
- 262 Bolivia.
- 263 Brazil.
- 264 Chile.
- 265 Colombia.
- 266 Ecuador.
- 267 Guiana, British.
- 268 Guiana, French.
- 269 Guiana, Dutch.
- 270 Paraguay.
- 271 Peru.
- 272 Uruguay.
- 273 Venezuela.

- 275 Atlantic islands.

- 281 Europe.

- Zone and physiographic divisions.

- 297 Alpine plateaus.
- 299-303 Other.

- By countries.

- 306 Great Britain.
- 307 Ireland.
- 308 Scotland.
- 310 Austria-Hungary.
- 313 France.

Topographical Divisions.**Europe.****By countries—Continued.**

- 314 Germany.
- 315 Greece.
- 316 Italy.
- 317 Netherlands.
- 318 Belgium.
- 319 Luxembourg.
- 320 Holland.
- 321 Russia.
- 322 Poland.
- 323 Finland.
- 324 Scandinavia.
- 325 Denmark.
- 326 Norway.
- 327 Sweden.
- Iberian peninsula.
- 329 Spain.
- 330 Portugal.
- 331 Switzerland.
- 332 Turkey and Balkan States.
- 333 Bulgaria.
- 334 Montenegro.
- 335 Roumania.
- 336 Servia.
- 341 Asia.
- 352 Afghanistan.
- 353 Arabia.
- 354 Baluchistan.
- 355 China.
- 358 India.
- 359 Ceylon.
- 360 Indo-China.
- 361 Annam.
- 362 Camboja.
- 363 Cochin China.
- 364 Tonkin.
- 365 Straits Settlements.
- 366 Indonesia.
- 367 Dutch East Indies.
- 368 Philippines.
- 369 Japan.
- 370 Korea.
- 371 Persia.

Topographical Divisions.

Asia—Continued.

- 372 Russia in Asia.
- 374 Central.
- 375 Siberia.
- 376 Turkey in Asia.
- 377 Armenia.
- 378 Palestine.
- 379 Syria.
- 381 Africa.
- 391 Tropical Africa.
- 393 West Africa.
- 395 Abyssinia.
- British.
- 397 Cape Colony.
- 398 Natal.
- 399 Transvaal. Orange.
- 400 Central and South.
- 401 East.
- 402 Other possessions alphabetically.
- 403 Egypt.
- French.
- 405 Algeria and Tunis.
- 407 Madagascar.
- 408 Senegambia.
- 409 Sahara.
- German.
- 411 East.
- 412 Kamerun.
- 413 Southwest.
- Italian.
- 414 Eritrea.
- 415 Somali.
- 416 Kongo.
- 417 Liberia.
- 418 Morocco.
- Portuguese.
- 419 East.
- 420 West.
- Spanish.
- 422 Canaries.
- 423 Rio Oro.
- 424 Tripoli.
- 431 Australia.
- 445 New South Wales.

Topographical Divisions.

Australia—Continued.

- 447 New Zealand.
- 451 North Australia.
- 453 Queensland.
- 455 South Australia.
- 457 Tasmania.
- 459 Victoria.
- 461 West Australia.
- Pacific islands.
- 471 General.
- 473 Individual groups alphabetically.
- 474 Arctic and Antarctic.

SPERMATOPHYTA (Special).**Trees and Shrubs.**

See also SD435, Timber trees.

- 475 General works.
- 479 Arboreta.
- Local.
- 481 Sylvas of North America.
- 482 Popular handbooks.
- 484 United States (by states, alphabetically).
- 486 Other American.
- Europe.
- 488 Great Britain.
- 489 Other European.
- 490 Asia.
- 491 Africa.
- 492 Australia.
- 493 Pacific islands.
- 494 Miscellaneous special topics.
- 495 **Monographs** (alphabetically, by subjects).

CRYPTOGAMIC BOTANY.

- 505 General.
- 507 Systematic.
- Local.
- 511 United States and Canada.
- 512 Other American.
- Europe.
- 513 Great Britain.
- 514 Other European.
- 515 Asia.
- 516 Africa.

CRYPTOGAMIC BOTANY.

Local—Continued.

- 517 Australia.
518 Pacific islands.
519 Arctic and Antarctic.
521 **Pteridophyta.** (Ferns, etc.)
521 General biology.
523 General descriptive.
524 Monographs (alphabetically by subject).
Local.
525 United States.
526 Other American.
Europe.
527 Great Britain.
528 Other European.
529 Asia.
530 Africa.
531 Australia.
532 Pacific islands.
Musci. (Mosses.)
535 General biology.
537 General descriptive.
539 Monographs.
Local.
541 United States.
542 Other American.
Europe.
543 Great Britain.
544 Other European.
545 Asia.
546 Africa.
547 Australia.
548 Pacific islands.
549 Arctic and Antarctic.
Hepaticae.
551 General biology.
553 General descriptive.
555 Monographs.
Local.
556 United States.
557 Other American.
Europe.
558 Great Britain.
559 Other European.
560 Asia.

Hepaticae.

Local—Continued.

- 561 Africa.
- 562 Australia.
- 563 Pacific islands.

Algae and Characeae.

- 565 General biology.
- 567 General descriptive.
- 569 Monographs.

Local.

- 571 United States.
- 572 Other American.
- Europe.
- 573 Great Britain.
- 574 Other European.
- 575 Asia.
- 576 Africa.
- 577 Australia.
- 578 Pacific islands.
- 580 Arctic and Antarctic.

Lichenes.

- 581 General biology.
- 583 General descriptive.
- 585 Monographs.

Local.

- 587 United States.
- 588 Other American.
- Europe.
- 589 Great Britain.
- 590 Other European.
- 591 Asia.
- 592 Africa.
- 593 Australia.
- 594 Pacific islands.
- 597 Arctic and Antarctic.

Fungi.

See also SB601 Plant culture, Fungus diseases.

- 601 General biology.
- 603 General descriptive
- Local.
- 605 United States.
- 606 Other American.
- Europe.
- 607 Great Britain.
- 608 Other European.

Fungi.**Local—Continued.**

- 609 Asia.
- 610 Africa.
- 611 Australia.
- 612 Pacific islands.
- 617 Edible and poisonous.
See also SB353, Mushroom culture.

Monographs.

- 621 Phycomycetes.
- 623 Ascomycetes.
- 625 Fungi imperfecti.
- 627 Lower Basidiomycetes.
- 629 Higher Basidiomycetes.
[BACTERIA. See QR Bacteriology].
- 633 Myxobacteriaceae.
- 635 Myxomycetes.

MORPHOLOGY AND ORGANOGRAPHY.

Cf. QK671-703. See also QH351, General morphology.

- 641 General.
- 643 Individual groups (alphabetically).
- Individual parts.
- 644 Root.
- 645 Shoot.
- 646 Stem.
- 647 Wood.
- 648 Bark.
- 649 Leaf.
- 650 Stipules.
- 651 Types of branching.
- 652 Inflorescence.
- 653 Flower.
- 654 Receptacle.
- 655 Perianth.
- 656 Calyx.
- 657 Corolla.
- 658 Androecium (Pollen, pollen plants).
- 659 Gynoecium (Embryo-sac, styles, etc.).
- 660 Fruit.
- 661 Seed.
- 662 Appendages. Trichomes, thorns, etc.
- 664 Teratology.
- 665 Embryology.

- 667 Phylogeny.
 669 Nomenclature of color as applied to plant description.

ANATOMY AND HISTOLOGY.

Cf. QK641-662. See also QH581-601, The cell (General biology);
 QK725, The vegetable cell and tissues.

- 671 General.
 673 Laboratory manuals, technique, microscopy, photomicrography.
 See also QH201-251, Microscopy.
 683 Individual groups (alphabetically).
 Individual parts.
 684 Root.
 685 Shoot.
 686 Stem.
 687 Wood.
 688 Bark.
 689 Leaf.
 690 Types of branching.
 691 Inflorescence.
 692 Flower.
 693 Receptacle.
 694 Perianth.
 695 Calyx.
 696 Corolla.
 697 Androecium.
 698 Gynoecium.
 699 Fruit.
 701 Seed.
 703 Appendages. Trichomes, thorns, etc.
 705 Anatomical classification of plants.

PHYSIOLOGY.

See also QH501-531, General physiology.

- 711 General works.
 PHYSICAL.
 725 The vegetable cell and tissues.
 See also QH581-671, The cell (General biology).
 731 **Growth.**
 740 Germination.
 745 Factors influencing growth.
 Chemical.
 746 Nutritive matter, etc.
 751 Poisons.

PHYSIOLOGY.**PHYSICAL.****Growth.**

Factors influencing growth—Continued.

Physical.

- 755 Heat.
- 756 Freezing.
- 757 Light.
- 758 Electricity.
- 759 Mechanical forces.
- 761 Periods of development.
- 763 Shedding of leaves and other organs.
- 769 Miscellaneous special topics.
- 771 **Movements.** Irritability in plants (general).
 - Movements affecting growth.
- 773 Nutation. Torsion.
 - Climbing plants.
 - Tendrils, etc.
- 776 Miscellaneous induced movements.
 - Geotropism, heliotropism, etc.
- 791 Movements of variation (not affecting growth).
 - Spontaneous periodic movements.
 - Nyctitropism.
 - Irritability of mature organs.
- 825 **Reproductive processes.**
 - See also QH471-489, Reproduction (General biology); QH423, Hybridization.
- 826 Vegetative propagation.
- 827 Sexual reproduction.
 - Fecundation.

CHEMICAL.

- 861 General works.
- 865 Chemical composition of plant body.
- 866 Chemical analysis of individual plants (alphabetically).
 - See also S587, Agricultural chemistry, analyses; QD421, Alkaloids.
- 867 **Nutrition.** Plant food.
 - 871 Absorption of fluids.
 - 873 Transpiration.
- 881 **Metabolism.**
 - 882 Photosynthesis. Assimilation and utilization of carbon dioxide.
 - 887 Formation of new organic matter.
 - 891 Respiration.
 - 896 Fermentation.
 - 898 Miscellaneous products.
- 899 Miscellaneous special topics.

ECOLOGY (Biology).

See also QH541-549, General ecology.

- 901 General works.
- 903 Ecological discussion of areas.
- 909 Illustrations of flora of regions.
- 911 Vegetative interrelation.
- 913 Acclimatization.
 - [Phenology, see QH544.]
- 915 Nutritive adaptation.
- 916 Aquatics, ice plants, dew plants.
- 917 Insectivorous plants.
- 918 Parasites, saprophytes, symbionts.
- 921 Protective adaptations.
- 922 Epiphytes, halophytes, xerophytes.
- 923 Spines, secretion, raphides.
- 924 Myrmecophilism, acarophilism.
- 925 Reproductive interrelation.
- 926 Pollination.
- 929 Dissemination.
 - [Variation in QH406.]
 - [Vegetable pathology in SB.]

Preliminary
July 1, 1905

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CLASSIFICATION
CLASS QL: ZOOLOGY

CLASS QL
ZOOLOGY

Animal culture in SF.

- 1 PERIODICALS, SOCIETIES, ETC.
- 3 COLLECTIONS.
- 5 VOYAGES AND EXPEDITIONS.
See also Q115; QH11; G150-420.
- 7 ENCYCLOPEDIAS.
- 9 DICTIONARIES.
- HISTORY.
- 15 General.
- 21 Local (by countries, alphabetically).
- BIOGRAPHY OF ZOOLOGISTS.
- 26 Collective.
- 31 Individual.
- 35 DIRECTORIES.
- 41 EARLY WORKS (BEFORE 1758).
See also QH41.
- 45 COMPREHENSIVE WORKS ON THE ENTIRE ANIMAL KINGDOM.
- 46 Pictorial works (Icones).
- TEXT-BOOKS.
- 47 Advanced.
- 48 Elementary.
- 49 Rudiments.
- 50 POPULAR WORKS.
Stories and anecdotes in QL791-795.
- 51 STUDY AND TEACHING.
- 52 Outlines, syllabi, etc.
- 53 Laboratory manuals.
See also QL812.
- COLLECTING AND PRESERVATION.
See also QL465, Insects—Collecting and preservation.
- 61 General.
- 62 Collecting.
Alluring; Bait; Light, etc.; Hunting; Nets; Killing; Exchange; Purchase; Rearing; Transporting.
- 63 Taxidermy.

COLLECTING AND PRESERVATION: Continued.

- 67 Arrangement of specimens in museums; cabinets, labels.
Preservation: museum pests, pestifuges; prevention of
moisture; retention of colors.
- 69 LABORATORIES."
- 71 MUSEUMS."
See also QL814, Museums of comparative anatomy. Special catalogues
are classified by subjects.
- 72 Commercial lists.
- 73 MENAGERIES.
ZOOLOGICAL GARDENS."
- 76 General.
- 77 Individual.
- AQUARIA (for animals)."
See also QH68.
- 78 General.
- 79 Individual.
- 81 ESSAYS, LECTURES, ADDRESSES, ETC.
- 83 Bible zoology.
- 89 ANIMAL LORE.
- 91 POPULAR NAMES.
Geographical distribution.
- 101 General.
- 105 Arctic regions.
- 106 Antarctic regions.
- 107 Temperate regions.
- 109 Tropical regions.
Physiographic divisions.
LAND.
- 111 Islands.
- 112 Forests.
- 113 Mountains.
- 115 Plains.
Deserts.
- 117 Caves.
- 118 Subterranean waters.
- 121 OCEAN.
- 122 Popular works.
- 123 Plankton.
- 124 Animal ecology of the ocean.
- 127 Atlantic Ocean.
- 128 North Atlantic.
- 131 Baltic.
- 133 Mediterranean.

"Descriptions, catalogues, etc. See QL1 for serial publications.

Geographical distribution.

Physiographic divisions.

OCEAN.

Atlantic Ocean—Continued.

134 Gulf of Mexico.

135 South Atlantic.

137 Indian Ocean.

Red Sea.

138 Pacific Ocean.

141 FRESH WATER.

143 Plankton.

145 Streams.

146 Lakes.

147 Springs.

148 Wells.

149 Stagnant water.

Topographical divisions (faunas).

151 North America.

155 United States.

158 Official publications.

159 Alabama.

161 Alaska.

162 Arizona.

163 Arkansas.

164 California.

165 Colorado.

166 Connecticut.

167 Delaware.

168 District of Columbia.

169 Florida.

171 Georgia.

172 Idaho.

173 Illinois.

174 Indian Territory.

175 Indiana.

176 Iowa.

177 Kansas.

178 Kentucky.

179 Louisiana.

181 Maine.

182 Maryland.

183 Massachusetts.

184 Michigan.

185 Minnesota.

186 Mississippi.

187 Missouri.

Topographical divisions (faunas).**North America.****United States —Continued.**

- 188 Montana.
- 189 Nebraska.
- 191 Nevada.
- 192 New Hampshire.
- 193 New Jersey.
- 194 New Mexico.
- 195 New York.
- 196 North Carolina.
- 197 North Dakota.
- 198 Ohio.
- 199 Oklahoma Territory.
- 201 Oregon.
- 202 Pennsylvania.
- 203 Rhode Island.
- 204 South Carolina.
- 205 South Dakota.
- 206 Tennessee.
- 207 Texas.
- 208 Utah.
- 209 Vermont.
- 211 Virginia.
- 212 Washington.
- 213 West Virginia.
- 214 Wisconsin.
- 215 Wyoming.
- 219 Canada.
- 221 By provinces, alphabetically.
- 225 Mexico.
- 227 Central America.
- 229 West Indies.
- 235 South America.
- 239 Argentina.
- 241 Bolivia.
- 242 Brazil.
- 243 Chile.
- 244 Colombia.
- 245 Ecuador.
- 246 Guiana.
- 247 Paraguay.
- 248 Peru.
- 249 Uruguay.
- 251 Venezuela; Trinidad.

Topographical divisions (faunas) --Continued.

- 253 Europe.
- 255 Great Britain.
- 257 Ireland.
- 259 Scotland.
- 261 Austria-Hungary.
- 263 France.
- 265 Germany.
- 271 Greece.
- 273 Italy.
- 275 Netherlands.
- 277 Belgium.
- 278 Luxembourg.
- 279 Holland.
- 281 Russia.
- 284 Poland.
- 285 Finland.
- 286 Scandinavia.
- 287 Denmark.
- 288 Iceland.
- 289 Norway.
- 291 Sweden.
- 293 Spain.
- 294 Portugal.
- 296 Switzerland.
- 297 Turkey and the Balkan States.
- 300 Asia.
- 304 Afghanistan.
- 305 Arabia.
- 306 Baluchistan.
- 307 China.
- 309 India.
- 312 Indo-China.
- 313 Annam.
- 314 Camboja.
- 315 Cochin China.
- 316 Tonkin.
- 317 Siam.
- 318 Straits Settlements.
- 319 Indonesia.
- 321 Dutch East Indies.
- 323 Philippines.
- 325 Japan.
- 327 Korea.
- 329 Persia.
- 331 Asiatic Russia.
- Siberia.

Topographical divisions (faunas).

Asia-- Continued.

333 Asiatic Turkey.

Armenia.

Palestine. Syria.

336 Africa.

337 By countries, alphabetically.

338 Australia.

339 By provinces, alphabetically.

345 Pacific islands (by groups, alphabetically).

CLASSIFICATION.

351 Principles.

352 Systems.

NOMENCLATURE.

353 Principles.

354 Nomenclators and check lists.

355 **GENERAL MORPHOLOGY.** Formative influences in general.**Invertebrates**

362 General treatises.

363 Anatomy, morphology.

364 Physiology.

365 Miscellaneous.

Protozoa.

See also QR251, Pathogenic protozoa.

366 General treatises.

367 Geographical distribution.

.1 North America (*i. e.*, United States and Canada).

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

.8 Pacific islands.

.9 Arctic and Antarctic.

368 Systematic list (subdivisions, alphabetically).

369 Anatomy, morphology, biology.

Spongiæ.

371 General treatises.

372 Geographical distribution.

.1 North America.

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

Spongiæ.

372 Geographical distribution—Continued.

.8 Pacific islands.

.9 Arctic and Antarctic.

373 Systematic list (subdivisions, alphabetically).

374 Anatomy, morphology, physiology, biology.

Cœlenterata.

375 General treatises.

376 Geographical distribution.

.1 North America.

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

.8 Pacific islands.

.9 Arctic and Antarctic.

377 Systematic list (subdivisions, alphabetically).

378 Anatomy, morphology, physiology, biology.

379 ZOOPHYTA (old sense).

Echinodermata.

381 General treatises.

382 Classification, etc.

383 Geographical distribution.

.1 North America.

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

.8 Pacific islands.

.9 Arctic and Antarctic.

384 Systematic list (subdivisions, alphabetically).

385 Anatomy, morphology, physiology, biology.

Vermes.

386 General treatises.

387 Classification, etc.

388 Geographical distribution.

.1 North America.

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

.8 Pacific islands.

.9 Arctic and Antarctic.

391 Systematic list (subdivisions, alphabetically).

Vermes—Continued.392 **ENTOZOA.**

See also QL757, Parasites; RC211-231, Diseases caused by Parasites.

393 Anatomy, morphology.

394 Physiology, biology.

Brachiopoda. Polyzoa (or Bryozoa).

395 General treatises.

396 Classification, etc.

397 Geographical distribution.

.1 North America.

.2 Mexico, Central America, and West Indies.

.3 South America.

.4 Europe.

.5 Asia.

.6 Africa.

.7 Australia.

.8 Pacific islands.

.9 Arctic and Antarctic.

398 Systematic list (subdivisions, alphabetically).

399 Anatomy, morphology, physiology, biology.

Mollusca (Mollusks, Shells, Conchology).

See also SH365-379, Oyster culture.

401 Periodicals, Societies, etc.

402 Collections.

403 Comprehensive works.

404 Pictorial works (Icones).

405 Popular and juvenile.

406 Classification; Check lists, etc.

Geographical distribution.

407 Land and Fresh-water.

408 Marine.

Topographical divisions.

411 North America.

413 Canada.

414 United States.

415 By States (land and fresh-water).

416 Atlantic Coast.

417 Pacific Coast.

418 Pacific islands.

419 Gulf Coast.

421 Mexico.

422 Central America.

423 West Indies.

424 South America.

425 Europe.

M5, Mediterranean.

Mollusca.**Topographical divisions—Continued.**

- 426 Asia.
- 427 Africa.
- 428 Australia.
- 429 Arctic and Antarctic.
- 430 Systematic list (subdivisions, alphabetically).
- 431 Anatomy, morphology, physiology, biology.
- 432 Miscellaneous.

434 ARTHROPODA.**Crustacea (crabs, lobsters, etc.).**

- 435 General treatises.
- 436 Pictorial works (Icones).
- 437 Popular and juvenile.
- 438 Classification, etc.
- 441 Geographical distribution.
 - .1 North America.
 - .2 Mexico, Central America, and West Indies.
 - .3 South America.
 - .4 Europe.
 - .5 Asia.
 - .6 Africa.
 - .7 Australia.
 - .8 Pacific islands.
 - .9 Arctic and Antarctic.

444 Systematic list (subdivisions, alphabetically).**445 Anatomy, morphology, physiology, biology.****448 Prototracheata.****449 Myriapoda.****450 Thysanura.****Arachnida (Spiders).**

- 451 Comprehensive works.
- 452 Popular and juvenile.
- 453 Classification; check-lists, etc.
- 457 Geographical distribution.
 - .1 North America.
 - .2 Mexico, Central America, and West Indies.
 - .3 South America.
 - .4 Europe.
 - .5 Asia.
 - .6 Africa.
 - .7 Australia.
 - .8 Pacific Islands.
 - .9 Arctic and Antarctic.

458 Systematic list (subdivisions, alphabetically).**459 Anatomy, morphology, physiology, biology.**

Insects.

See also SB823-987, Economic entomology; SF541-559, Silkworms.

- 461 PERIODICALS, SOCIETIES, ETC.
- 462 Collections.
- 463 COMPREHENSIVE WORKS.
- 464 Field and laboratory manuals.
- 465 Collecting and preservation.
- 466 Pictorial works (Icones).
- 467 Popular and juvenile.
- 468 Classification; check lists, etc.
- 469 Geographical distribution.
- 473 North America.
- 474 United States.
- 475 By States (alphabetically).
- 476 Canada.
- 477 Mexico.
- 478 Central America.
- 479 West Indies.
- 481 South America.
- 482 Europe.
- 483 Asia.
- 485 Africa.
- 487 Australia.
- 489 Pacific islands.
- 491 Arctic and Antarctic.
- 494 Anatomy, morphology.
- 495 Physiology.
- 496 Biology.
- 497 Miscellaneous.
- Aptera.**
- 501 General treatises.
- 502 Geographical distribution.
- .1 North America.
- .2 Mexico, Central America, and West Indies.
- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.
- 503 Systematic list (subdivisions, alphabetically).
- 504 Anatomy, morphology, physiology, biology.
- Orthoptera.** (Grasshoppers, locusts, etc.)
- 506 General treatises.

Insects.**Orthoptera** (Grasshoppers, locusts, etc.)—Continued.

507 Geographical distribution.

- .1 North America.
- .2 Mexico, Central America, and West Indies.
- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.

508 Systematic list (subdivisions, alphabetically).

509 Anatomy, morphology, physiology, biology.

Neuroptera. (Dragon flies, etc.)

511 General treatises.

512 Geographical distribution.

- .1 North America.
- .2 Mexico, Central America, and West Indies.
- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.

513 Systematic list (subdivisions, alphabetically).

514 Anatomy, morphology, physiology, biology.

Trichoptera.

516 General treatises.

517 Geographical distribution.

- .1 North America.
- .2 Mexico, Central America, and West Indies.
- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.

518 Systematic list (subdivisions, alphabetically).

519 Anatomy, morphology, physiology, biology.

Hemiptera.

521 General treatises.

522 Geographical distribution.

- .1 North America.
- .2 Mexico, Central America, and West Indies.

Insects.**Hemiptera.****522 Geographical distribution—Continued.**

- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.

523 Systematic list (subdivisions, alphabetically).**524 Anatomy, morphology, physiology, biology.****Diptera. (Flies, etc.)**

- 531 Comprehensive works.**
- 532 Pictorial works (Icones).**
- 533 Popular and juvenile.**
- 534 Classification; check lists, etc.**
- 535 Geographical distribution.**

- .1 North America.
- .2 Mexico, Central America, and West Indies.
- .3 South America.
- .4 Europe.
- .5 Asia.
- .6 Africa.
- .7 Australia.
- .8 Pacific islands.
- .9 Arctic and Antarctic.

536 Mosquitoes.**537 Systematic list (other subdivisions alphabetically).****538 Anatomy, morphology, physiology, biology.****Lepidoptera. (Butterflies and moths.)**

- 541 PERIODICALS, SOCIETIES, etc.**
- 542 COMPREHENSIVE WORKS.**
- 543 Pictorial works (Icones).**
- 544 Popular and juvenile.**
- 545 Classification; check lists, etc.**
- 546 Geographical distribution.**
- 548 North America.**
- 549 United States.**
- 551 By States (alphabetically).**
- 552 Canada.**
- 553 Mexico, Central America, and West Indies.**
- 554 South America.**
- 555 Europe.**
- 556 Asia.**

Insects.**Lepidoptera.**

Geographical distribution—Continued.

- 557 Africa.
- 558 Australia.
- 559 Pacific islands.
- 561 Systematic list (subdivisions, alphabetically).
- 562 Anatomy, morphology, physiology, biology.

Hymenoptera. (Ants, bees, wasps, etc.)

See also SF521-533, Bee culture.

- 563 Comprehensive works.
- 564 Pictorial works (Icones).
- 565 Popular and juvenile.
- 566 Classification; check lists, etc.
- 567 Geographical distribution.
 - .1 North America.
 - .2 Mexico, Central America, and West Indies.
 - .3 South America.
 - .4 Europe.
 - .5 Asia.
 - .6 Africa.
 - .7 Australia.
 - .8 Pacific islands.
 - .9 Arctic and Antarctic.

- 568 Systematic list (subdivisions, alphabetically).
- 569 Anatomy, morphology, physiology, biology.

Coleoptera. (Beetles.)

- 571 PERIODICALS, SOCIETIES, ETC.
- 572 COLLECTIONS.
- 573 COMPREHENSIVE WORKS.
- 574 Compends.
- 575 Pictorial works (Icones).
- 576 Popular and juvenile.
- 577 Classification; check lists, etc.
- 578 Geographical distribution.
 - 581 North America.
 - 583 United States.
 - 584 By States (alphabetically).
 - 585 Canada.
 - 586 Mexico.
 - 587 Central America.
 - 588 West Indies.
 - 589 South America.
 - 591 Europe.
 - 592 Asia.
 - 593 Africa.

Insects.**Coleoptera.**

Geographical distribution—Continued.

- 594 Australia.
- 595 Pacific islands.
- 596 Systematic list (subdivisions, alphabetically).
- 597 Anatomy, morphology, physiology, biology.

Vertebrates.**605 GENERAL WORKS.**

607 Classification; check lists, etc.

[Anatomy, morphology. See QL805.]

611 PROCHORDATA.

612 Amphioxus.

613 Tunicata.

Fishes.

Fish-culture, Fisheries and Angling in SIL.

614 Collections.

615 COMPREHENSIVE WORKS.

616 Pictorial works (Icones).

617 Popular and juvenile.

618 Classification; check lists, etc.

619 Geographical distribution.

620 Oceanic ichthyology.

621 Atlantic.

622 Indian.

623 Pacific.

624 Freshwater distribution.

Topographical divisions.

625 North America.

626 Canada.

627 United States.

628 By States (alphabetically.)

629 Mexico.

630 Central America.

631 West Indies.

632 South America.

633 Europe.

634 Asia.

635 Africa.

636 Australia.

637 Arctic and Antarctic.

- Fishes—Continued.**
638 Systematic list (subdivisions, alphabetically).
639 Anatomy, morphology, physiology, biology.
Reptiles, Batrachia.
641 COMPREHENSIVE WORKS.
643 Pictorial works (Icones).
644 Popular and juvenile.
645 Classification; check lists, etc.
648 Geographical distribution.
651 North America.
652 United States.
653 By States (alphabetically).
654 Canada.
655 Mexico.
656 Central America. West Indies.
657 South America.
658 Europe.
661 Asia.
662 Africa.
663 Australia.
664 Pacific islands.
Systematic list (subdivisions, alphabetically).
666 Reptiles.
668 Batrachia.
669 Anatomy, morphology, physiology, biology.
Birds.
671 PERIODICALS, SOCIETIES, ETC.
672 COLLECTIONS.
673 COMPREHENSIVE WORKS.
674 Pictorial works (Icones).
675 Birds' eggs and nests.
676 Popular and juvenile.
677 Classification; check lists. Nomenclature.
Geographical distribution.
678 General.
679 Zone divisions.
681 North America.
683 United States.
684 By States (alphabetically).
685 Canada.
686 Mexico.
687 Central America.
688 West Indies.
689 South America.
690 Europe.
691 Asia.

Birds.**Geographical distribution—Continued.**

- 692 Africa.
- 693 Australia.
- 694 Pacific islands.
- 695 Arctic and Antarctic.
- 696 Systematic list (subdivisions, alphabetically).
 - .A6 Apterygii.
 - .C7 Columbinae.
 - .G2 Gallinacei.
 - .G7 Grallatores.
 - .N2 Natatores.
 - .P2 Passeres.
 - .R2 Raptatores.
 - .S2 Scansores.
 - .S9 Struthiomorphi.
- 697 Anatomy, morphology.
- 698 Physiology, biology.
- 699 Miscellaneous (Birds of the Bible, etc.)

Mammals.

- 701 COLLECTIONS.
- 703 COMPREHENSIVE WORKS.
- 704 Compendis.
- 705 Pictorial works (Icones).
- 706 Popular and juvenile.
- 708 Classification; check lists, etc.
- 711 Geographical distribution.
- 715 North America.
- 717 United States.
- 719 By States (alphabetically).
- 721 Canada.
- 722 Mexico.
- 723 Central America.
- 724 West Indies (alphabetically).
- 725 South America.
- Europe—
 - 727 Great Britain.
 - 728 Other countries (alphabetically).
 - 729 Asia.
 - 731 Africa.
 - 733 Australia.
 - 735 Pacific islands.
 - 736 Arctic and Antarctic.
 - 737 Systematic list (subdivisions, alphabetically).
 - .C2 Carnivora.
 - .C4 Cetacea.
 - Whale fishery in SH381-387.

Mammals.

- 737 Systematic list (subdivisions, alphabetically)—Continued.
 .C5 Chiroptera.
 .E2 Edentata.
 .I5 Insectivora.
 .M3 Marsupialia.
 .M7 Monotremata.
 .M9 Multituberculata.
 .P6 Pinnipedia.
 .P9 Primates.
 .R6 Rodentia.
 .S6 Sirenia.
 .T5 Tillodonta.
 .U5 Ungulata.
- 738 Miscellaneous.
- 739 Anatomy, morphology.
 See also QL805.

ETHOLOGY.

(Habits, behavior, etc.)

- 751 General works.
 Special topics.
- 753 Seasonal habits.
 See also QH544, Phenology.
- 754 Migration.
- 755 Hibernation.
- 756 Food and shelter.
- 757 Parasitism.
 See also QL392, Entozoa.
- 761 Sexual relations.
- 765 Voice: sound production.
- 767 Color phenomena.
 See also QH546, Adaptation.
- 775 Social relations.
 Gregariousness.
- 781 Instinct.
- 785 Psychology.
- STORIES AND ANECDOTES.
- 791 General.
- 795 Special (alphabetically by common name of animal).

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ANATOMY.

Here are classified general works on comparative anatomy and special works on the anatomy of individual organs; for works on the anatomy of special groups of animals, see the preceding systematic divisions. Human anatomy in QM.

- 801 PERIODICALS, SOCIETIES, ETC.
- 803 COLLECTIONS.
- 805 GENERAL WORKS.
- 808 Essays, lectures, addresses, etc.
- 812 Study and teaching; Laboratory manuals.
- 814 Museums.
- 821 **Skeleton. Osteology.**
- 823 Catalogues of specimens.
- 831 **Muscles.**
 - Vascular system.**
- 835 Blood vessels.
- 838 Heart.
- 841 Lymphatics.
- 845 **Organs involved in the process of Respiration.**
- 846 Branchiæ (gills).
- 847 Tracheæ.
- 848 Lungs.
- 849 Pleura.
- 851 Diaphragm.
- 852 Respiratory passages.
- 853 Larynx.
- 855 Air sacs, swimming bladders, etc.
- 856 **Organs involved in the process of Nutrition.**
- 857 Mouth.
- 858 Teeth.
- 861 Pharynx: œsophagus.
- 862 Stomach.
- 863 Intestines.
- 864 Peritoneum. Mesentery and Omentum.
 - Glands.
- 865 Salivary glands.
- 866 Pancreas.
- 867 Liver.
- 868 The ductless glands.
 - (Spleen, Thyroid, Thymus, Suprarenal, Pineal gland, Pituitary body.)
- 871 **Urogenital system.**
- 872 Excretory organs.
 - Nephridia.
 - Kidneys.
 - Ducts.
 - Bladder.

Urogenital system—Continued.

- 876 Reproductive organs.
- 878 Male.
- 881 Female.

Nervous system.

See also QM451–471, Nervous system (Human anatomy); QM575, Nerve tissues (Histology); QP361–381, Nervous system (Physiology).

- 921 Periodicals, societies, etc.
- 923 Collections.
- 925 General works.
- 927 Laboratory manuals; neurological technique.
- 931 Nervous elements; cells, fibers, supporting structures, etc.
 - Central nervous system.
- 933 General.
 - Special types.
- 935 Invertebrate.
- 937 Vertebrate.
- 939 Peripheral nervous system.
- 941 **Integument.**
- 942 Hair, scales, nails, hoofs, horns.
- 943 Skin glands, etc.
- 945 **Sense organs.**
- 946 Tongue.
- 947 Nose.
- 948 Ear.
- 949 Eye.

EMBRYOLOGY.

See also QM601–611, Human embryology.

- 951 Collections.
- 955 General works.
- 957 Laboratory manuals.
 - Special types.
- 958 Invertebrate.
- 959 Vertebrate.
 - Special topics.
- 965 Oogenesis and ovum.
- 966 Spermatogenesis and spermatozoon.
 - [Fertilization in QH485.]
- 971 Development of embryo.
- 973 Allantois; placenta.
- 981 Metamorphosis.
- 991 **Teratology.**

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July 1, 1906

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CLASS QM: HUMAN ANATOMY

CLASS QM

HUMAN ANATOMY

Comparative anatomy in Q1801-949; Physical anthropology in GN.

- 1 PERIODICALS, SOCIETIES, ETC.
- 5 COLLECTIONS.
- 11 HISTORY.
- 16 Biography of anatomists.
- 21 WORKS BEFORE 1800.
- 23 TREATISES AND TEXT-BOOKS (general and descriptive).
- 25 PICTORIAL WORKS. ATLASES.
- 26 Elements. Popular works.
 See also QP36-38.
- STUDY AND TEACHING.
- 28 Compends.
- 31 Outlines, syllabi, etc.
- 32 Examinations, questions, etc.
- 33 Charts, manikins, etc.
- DISSECTION.
- 34 Manuals of practical anatomy.
- 35 Outline guides.
- 39 Laboratory technique.
- 41 Laboratories.
- 51 Museums.
- 71 Essays, lectures, addresses, etc.
- 81 Nomenclature.
- 101 **The Skeleton.**
- 105 Skull.
 See also GN71-131, Craniology.
- 111 Vertebral column.
- 113 Ribs and sternum.
- 115 Hip bone and pelvis.
- 117 Bones of the extremities.
- 131 **The Articulations.**
- 141 Ligaments.
- 151 **The Muscles.**
- 155 Of the head and neck.
- 161 Of the trunk.
- 165 Of the limbs.
- Vascular System.**
- 181 Heart.
 Pericardium.

Vascular System—Continued.

- 191 Arteries.
- Veins.
- 197 Lymphatics.
- 251 **Organs of Respiration and Voice.**
- 255 Larynx.
- 257 Trachea. Bronchi.
- 261 Lungs.
- Pleura.
- 301 **Organs of Digestion.**
- 306 Mouth.
- 311 Teeth.
- 325 Salivary glands.
- See also QP191, Salivary secretion.
- 331 Pharynx; oesophagus.
- 341 Stomach.
- 345 Intestines.
- 351 Liver.
- 353 Pancreas.
- 367 Peritoneum. Mesentery and omentum.
- 371 The ductless glands.
- (Spleen, Thyroid, Thymus, Suprarenal, Pineal gland, Pituitary body.)
- 401 **Urinary and Reproductive Organs.**
- 404 Kidneys.
- 408 Ureters.
- 411 Bladder.
- 416 Male organs of generation.
- 421 Female organs of generation.
- 431 Perineum.
- 451 **Nervous System.**
- 455 Brain.
- 465 Spinal cord.
- 469 Meninges.
- 471 Peripheral system.
- 481 **Integument.**
- 484 External skin.
- 485 Bursæ mucosæ.
- 488 Hair. Nails.
- 491 Skin glands.
- 495 Mammæ.
- 501 **Sense Organs.**
- 503 Tongue.
- 505 Nose.
- 507 Ear.
- 511 Eye.

QM

HUMAN ANATOMY

QM

REGIONAL ANATOMY.

(Surgical and Topographical.)

- 531 General treatises.
- Special regions.
- 535 Head and neck.
- 541 Thorax.
- 543 Abdomen.
- Limbs.
- 548 Upper.
- 549 Lower.

NORMAL HISTOLOGY.

(Microscopic Anatomy.)

- 551 Treatises and text-books.
- 553 Outlines, syllabi, etc.
- 555 Laboratory manuals.
- Special tissues.
- 559 Pigment.
- 561 Epithelium.
- 563 Connective tissues.
- 565 Adipose tissues.
- 567 Cartilaginous tissues.
- 569 Bony tissues.
- 571 Muscular tissues.
- 575 Nerve tissues.

HUMAN EMBRYOLOGY.

- 601 General works.
- 611 Special topics.

- 691 **Teratology.**
- 699 Early works on monsters.

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CLASS QP: PHYSIOLOGY

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PHYSIOLOGY

- 1 PERIODICALS, SOCIETIES, ETC.
- 6 COLLECTIONS.
- 11 DICTIONARIES.
- 21 HISTORY.
 - BIOGRAPHY OF PHYSIOLOGISTS.
- 25 Collective.
- 26 Individual.
- 29 WORKS BEFORE 1800.
- 31 COMPREHENSIVE TREATISES.
 - 33 Elementary comparative physiology.
- HUMAN PHYSIOLOGY.
- 34 Treatises and advanced text-books.
- 36 School text-books.
- 37 Juvenile literature. Rudiments of personal hygiene.
- 38 Popular works.
- STUDY AND TEACHING.
- 40 Quiz-compendes, examination manuals.
- 41 Outlines, syllabi, etc.
 - Laboratory manuals.
- 42 Elementary.
- 44 Advanced.
- 45 Vivisection.
- LABORATORIES.
- 51 General.
- 53 Individual.
- 55 Apparatus.
- 71 ESSAYS, LECTURES, ADDRESSES, ETC.
- 77 Miscellaneous speculations. Curiosa.
- 81 **General phenomena of animal life.**
 - 82 Influence of environment (high altitudes, etc.).
 - 84 Changes during life (growth, puberty, periodic phenomena,
 etc.).
 - 86 Senescence.
 - 87 Death.
 - See also QH559.
- 88 **Physiology of the tissues in general.**
 - (Including physical and chemical properties.)

- 91 **Blood.**
- 95 **White corpuscles.**
 - See also QR181, Immunity.
- 101 **Circulation.**
 - Blood pressure, velocity, pulse, etc.
 - Heart, Blood vessels.
- 115 **Lymph and the lymphatic system.**
- 121 **Respiration.**
- 135 **Animal heat.**
- 141 **Nutrition.**
 - See also TX551, Food values; RM211-236, Diet.
- 145 **Digestion of food.**
- 146 **Mouth; pharynx; œsophagus.**
- 151 **Stomach.**
- 156 **Intestines.**
- 165 **Absorption.**
- 171 **Metabolism.**
- 185 **Liver.**
- 187 **The ductless glands.**
 - (Spleen, Thyroid, Thymus, Suprarenal, Pineal gland, Pituitary body.)
- 190 **Secretions.**
 - Of the Digestive glands.**
 - 191 **Saliva.**
 - 193 **Gastric juice.**
 - 195 **Pancreatic juice.**
 - 197 **Bile.**
 - 211 **Of the Kidney or other renal apparatus.**
 - Urine.
 - 221 **Of the Skin.**
 - Sweat.
 - 231 **Tears.**
 - 235 **Venom.**
 - 246 **Milk. Mammary and allied functions.**
- 251 **Reproduction.**
 - See also QH471-489, Reproduction (General biology).
 - 255 **Testis and semen.**
 - See also QL966, Spermatogenesis.
 - 257 **Accessory male organs.**
 - 261 **Ovary and ovulation.**
 - See also QL965, Oogenesis.
 - 265 **Accessory female organs.**
 - 273 **Fecundation.**
 - See also QH485, Fertilization.
 - 277 **Physiology of the embryo.**
 - See also QL951-973, Embryology (Zoology); QM601-611, Human embryology.
 - 281 **Gestation.**
 - See also Obstetrics in RG.

Movements.

- 301 General.
- 303 Mechanics.
- 306 Voice and speech.
See also MT821, Voice culture.
- 311 Other movements.
- 321 **Muscle.**
- 331 **Nerve.**
- 341 Electro-physiology.
- 348 Electrical organs.

NERVOUS SYSTEM AND THE SENSES.**EXPERIMENTAL PSYCHOLOGY.**

- 351 PERIODICALS, SOCIETIES, AND COLLECTIONS.
- 353 HISTORY.
- 355 COMPREHENSIVE WORKS.
- 357 Laboratory manuals.
- 359 Minor works. Miscellany.

Nervous system.

- 361 General works.
- 363 Miscellaneous general functions. The neuron.
- 366 Cerebro-spinal nerves.
- 368 Ganglionic nervous system (including sympathetic system).
- 371 SPINAL CORD.
- 372 Reflex actions.
- 374 Other special topics.
- 376 BRAIN.
- 377 Medulla oblongata.
- 378 Mid Brain, etc.
- 379 Cerebellum.
- 381 Cerebral hemispheres.
- 385 Localisation of functions.
- 391 Time relations of central processes.
- 395 Association of ideas.
- 398 Memory.
- 401 Pleasure and pain.
- Emotions.
- 405 Attention and volition.
- 411 Consciousness, subconsciousness, and unconsciousness.
- 421 Mental fatigue.
- 425 Sleep. Hypnotic conditions, etc.

The Senses.

- 431 General works.
- 435 Sensation (general).

The Senses—Continued.

- 441 Perceptual processes.
- 443 Space.
- 445 Time.
- Special senses:
- 451 Touch and other cutaneous senses.
- 454 Sense of movement.
- 456 Taste.
- 458 Smell.

HEARING. PHYSIOLOGICAL ACOUSTICS.

See also QC225, Sound; ML3820-3838, Psychology of music.

- 461 General.
- 463 Limits of audition.
- 465 Tone. Concord and discord.
- Rhythm. Melody.
- 469 Localisation of sound.
- 471 Labyrinthine sense. Equilibration.

VISION. PHYSIOLOGICAL OPTICS.

See also RE, Ophthalmology.

- 475 General.
- 476 Eyeball.
- 479 Retina (general).
- 481 Light and color sensations.
- After-images, Contrast, Fatigue.
- Persistence, Flicker, Recurrent image.
- Intensity.
- 487 Binocular vision.
- 491 Visual space perception.
- Form, solidity, size.
- Movement.
- 495 Visual illusions.
- 499 Miscellaneous.

PHYSIOLOGICAL CHEMISTRY.

See also QD415, Chemistry of vital products; QH345, Chemical properties of living matter; RS403-407, Medical chemistry.

- 501 PERIODICALS, SOCIETIES, ETC.
- 509 COLLECTIONS.
- 514 GENERAL TREATISES AND TEXT-BOOKS.
- 519 Laboratory manuals.
- Special works.
- Inorganic substances.
- 531 General.
- 535 Special (alphabetically by chemical symbol of principal element, as in QD181).

PHYSIOLOGICAL CHEMISTRY.**Special works—Continued.**

- 551 Proteids and allied substances.
- 601 Enzymes. Fermentation.
Cp. QR151.
- 631 Toxins and antitoxins.
See also QR181-185, Immunization.
- 671 Pigments.
- 701 Carbohydrates.
- 751 Fats and allied substances.
See also TP676, Animal fats and oils (chemical technology).
- 801 Miscellaneous organic substances (alphabetically).
e. g., ·P7, Ptomaines and leucomaines; ·P8, Purin and its derivatives.

EXPERIMENTAL PHARMACOLOGY.

(Physiological effects of chemical substances on the animal body.)

See also RA1201-1280, Toxicology; RS, Pharmacy and Pharmacognosy.

- 905 General works. Laboratory manuals.
- 909 Miscellaneous general topics.
Individual chemical substances.
- 911 Water.
- 913 Elements and inorganic compounds.
(Alphabetically by chemical symbol of active element, as in QD181.)
- 915 Non-nitrogenous compounds of the fatty series (alphabetically).
- 917 Non-nitrogenous compounds of the aromatic series (alphabetically).
- 921 Alkaloids (alphabetically).
- 925 Glucosides (alphabetically).
- 941 Toxins. Venom.
- 951 Fluids and extracts from the animal body.
- 981 Others (alphabetically).

Preliminary
July 1, 1905.

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CLASSIFICATION

CLASS QR : BACTERIOLOGY

(INCLUDING YEASTS, MOULDS, AND
PATHOGENIC PROTOZOA)

CLASS QR
BACTERIOLOGY

- 1 PERIODICALS, SOCIETIES, ETC.
- 6 COLLECTIONS.
- 21 HISTORY.
- 31 BIOGRAPHY OF BACTERIOLOGISTS.
- 41 GENERAL TREATISES.
- TEXT-BOOKS AND MANUALS.
- 46 Medical and surgical.
 - Special topics in QR175-251.
- 47 Dental. (Mycology of the mouth.)
- 49 Veterinary.
 - See also QR301-325.
- 51 Agricultural.
 - See also QR111, Bacteria in soil; QR121, in dairy products; QR351, in plant diseases.
- 53 Technical.
 - Cp. QR151.
- 56 POPULAR WORKS.
 - Essays, lectures, addresses, etc.
- 61 STUDY AND TEACHING.
 - Outlines, syllabi, etc.
- 63 Laboratory manuals.
- 65 LABORATORY TECHNIQUE.
- 66 Special culture methods.
- 68 Special microscopical methods.
- 69 Miscellaneous topics.
- 71 Apparatus; laboratory equipment.
- 75 MORPHOLOGY.
- 81 CLASSIFICATION.
- 82 Systematic list (subdivisions, alphabetically).
- 84 PHYSIOLOGY.
 - Bacteria, etc., in relation to non-living surroundings.**
- 101 Air.
- 105 Water.
- 111 Soil.
- 115 Foods.
 - See also TX601, Canning and preserving.
- 117 Meat.

Bacteria, etc., in relation to non-living surroundings.**Foods—Continued.**

119 Bread. Cereals.

121 Dairy products.

See also SF231, Dairying.

129 Others.

151 **Micro-organisms of Fermentation. Yeasts, etc.****Diseases of wine and beer.**

See also TP570-581, Brewing.

171 **Non-pathogenic bacteria in the animal body.****Pathogenic bacteria.**

See also RC111-206, Infectious diseases.

175 **Pathogenic action in general.****IMMUNITY AND IMMUNIZATION.**181 **General.**185 **Special topics.**201 **Bacteria of special diseases (alphabetically).**

e. g., .A2, Actinomycosis; .A6, Anthrax; .C5, Cholera; .D5, Diphtheria; .G5, Glanders; .G7, Gonorrhoea; .H7, Hog cholera; .L5, Leprosy; .M2, Malaria; .M4, Mastitis; .P6, Plague; .P7, Pneumonia; .S6, Smallpox; .S9, Syphilis; .T3, Tetanus; .T6, Tuberculosis; .T9, Typhoid; .T95, Typhus; .Y8, Yellow fever.

241 **Miscellaneous.**251 **Pathogenic protozoa.**301 **Bacteria of diseases in different classes of animals.**303 **Mammals other than man.**

See also SF600-995.

311 **Birds.**315 **Reptiles and batrachia.**321 **Fishes.**

See also SH171.

325 **Invertebrates.**351 **Bacteria of plant diseases.**

See also SB601-761.

INDEX

The subjects here listed are those which fall within the scope of the preceding schedules. A few references to other classes are given in the case of certain subjects which might be looked for in this section. Additional references will be found in the schedules themselves. The names of special chemical compounds, minerals, and rocks are not as a rule included. (See QD 181, QE 389, etc.). Botanical and zoological names are restricted to main divisions of the vegetable and animal kingdoms, subdivisions of special interest, and popular names of some common plants and animals.

INDEX

A

- Abacus: QA 135.
- Abdomen, regional anatomy: QM 543.
- Abelian functions: QA 345.
- Aberration
 - Determination of constant, corrections: QB 163.
 - Physical theory: QC 671.
- Aberration, chromatic and spherical: QC 383-385.
- Abnormalities
 - Animals: QL 991.
 - Plants: QK 664.
- Absorption, atmospheric: QC 911.
- Absorption of fluids by plants: QK 871.
- Absorption of food: QP 165.
- Absorption of heat: QC 331.
- Absorption of light: QC 437.
- Academies (*see* Societies).
- Acarophilism: QK 924.
- Acclimatization: QH 543.
 - Plants: QK 913.
- Accumulators: QC 605.
- Acephala: QL 430.
 - Fossil: QE 811-812.
- Achromatism: QA 383-385.
- Acids, inorganic (*see* under characteristic element in QD 181).
- Acids, organic: QD 305, 341.
- Acoustics: QC 220-249.
 - [Musical in ML]
 - Physiological: QP 461-469.
- Actinometers: QC 912.
- Actinozoa: QL 377.C5-7.
- Adaptation: QH 546.
 - Plants: QK 915-924.
- Addition: QA 115.
- Adipose tissue: QM 565.
- Aerial erosion: QE 597.
- Affinity, chemical: QD 501.
- Agricultural bacteriology: QR 51.
- Air (*see also* Atmosphere; Gases; Meteorology)
 - Bacteriology: QR 101.
 - Chemistry: QD 163.
- Air, liquid: QD 535.
- Air-bladders, fishes: QL 855.
- Air-pumps: QC 166.
- Air-sacs, birds: QL 855.
- Air thermometer: QC 273.
- Alchemy: QD 25.
 - History: QD 13.
- Alcohols: QD 305, 341.
- Aldehydes: QD 305, 341.
- Algæ: QK 565-580.
 - Fossil: QE 955.
- Algebra: QA 152-295.
 - Graphic: QA 219.
 - Multiple: QA 251.
 - Universal: QA 251-265.
- Algebra of logic: QA 265.
- Algebraic curves: QA 565-567, 581.
- Algebraic functions and their integrals: QA 341-345.
- Algebraic surfaces: QA 571-573.
- Algonkian: QE 655.
- Alimentary canal
 - Comparative anatomy: QL 856-863.
 - Human anatomy: QM 301-345.
- Aliphatic compounds: QD 301-319.
- Alkalies: QD 172.A4.
- Alkaloids
 - Botany: QK 865-866.
 - Chemistry: QD 421.
 - Pharmacology: QP 921.
- Allantois: QL 973.
- Alligators: QL 666.C9.
- Alloxuric substances: QP 801, 211.
- Alluvium: QE 699.
- Almucantar: QB 103.
- Alpine plants: QK 297, 331.
- Altazimuth: QB 103.
- Alternating currents: QC 641.
- Alternation of generations: QH 489.
- Altitude, influence of: QP 82.
- Altitude, measurement of: QC 895.
- Amber: QE 391.A5.
- Amines: QD 305, 341.
- Ammeter: QC 544.A5.
- Ammonia: QD 181.N1.

INDEX

- Ammonites: QE 807.A5
 Amoeba: QL 368.A5
 Amphibia: QL 641-669.
 Fossil: QE 867-868.
 Amphineura: QL 430.1.
 Fossil: QE 805.
 Amphioxus: QL 612.
 Analysis of sounds (by phonograph, etc):
 QC 246.
 Analysis situs: QA 611.
 Analytic chemistry
 General and inorganic: QD 71-142.
 Mineralogical: QE 367-369.
 Petrological: QE 438.
 Organic: QD 271.
 Botanical: QK 865-866.
 Physiological: QP 519.
 Analytic geometry: QA 551-581.
 Analytic mechanics: QA 802-935.
 Anatomy
 Comparative: QL 801-949.
 Human: QM
 Microscopic: QM 551-575.
 Regional: QM 531-549.
 Androecium: QK 658, 697.
 Anemometers: QC 932.
 Aneroid barometer: QC 896.
 Angle measurement, crystallography:
 QD 915.
 Angle, trisection of: QA 468.
 Animal coloration: QL 767.
 Animal electricity: QP 341.
 Animal extracts, pharmacology: QP 951.
 Animal heat: QP 135.
 Animal intelligence: QL 751.
 Animal locomotion: QP 301.
 Animal lore: QL 89.
 Animal mechanics: QP 303.
 Animal parasites: QL 757, 392.
 Animal psychology: QL 785.
 Animalcules: QL 365.
 Animals
 Geographical distribution: QL 101.
 Habits and behavior: QL 751-785.
 Menageries: QL 73.
 Stories and anecdotes: QL 791-795.
 Zoological gardens: QL 76-77.
 Animals, extinct, popular works: QE 763.
 (See also Paleontology)
 Annelida: QL 891.A8.
 Anomalous dispersion: QC 435.
 Antarctic regions [Cf. G 850-890]
 Botany: QK 474.
 Natural history: QH 84.2
 Terrestrial magnetism: QC 825.9
 Zoology: QL 106.
 Anthracene: QD 393.
 [Anthropology in GN]
 Antlers: QL 942.
 Ante: QL 568.F7
 Aorta: QL 835; QM 191.
 Apes: QL 737.P9
 Apparatus and instruments: Q 184-186.
 Astronomical: QB 85-135.
 Bacteriological: QR 71.
 Biological: QH 324.
 Chemical: QD 53.
 Electrical: QC 543-544; QD 559.
 Magnetic: QC 819.
 Mathematical: QA 71-85.
 Meteorological: QC 876.
 Microscope: QH 211-219.
 Optical: QC 371-375.
 Physical: QC 53.
 Physiological: QP 55.
 Approximation: QA 221.
 Aptera: QL 501-504.
 Aquaria: QH 68; QL 78-79.
 Aquatic animals: QL 121-149.
 Aquatic organisms, microscopic: QH 275.
 Aquatic plants: QK 916.
 Aqueous erosion: QE 581.
 Aqueous vapor and rain: QC 915-929.
 Arachnida: QL 451-459.
 Fossil: QE 825-826.
 Arboreta: QK 479.
 Arc, electric: QC 705.
 Arc measures, geodesy: QB 291.
 Archean: QE 653.
 Arctic regions [cf. G 601-830]
 Botany: QK 474.
 Natural history: QH 84.1.
 Terrestrial magnetism: QC 825.8.
 Zoology: QL 105.
 Areas of curves: QA 626.
 Planimeter: QA 81.
 Areas of surfaces: QA 636.
 Arithmetic: QA 101-145.
 Arithmetic, foundations of: QA 248.
 Aromatic compounds: QD 331-401.
 Arsenic
 Chemistry: QD 181.A7.
 Pharmacology: QP 913.A7.
 Arteries: QL 835; QM 191.
 Arthropoda: QL 434.
 Fossil: QE 815.
 Articulations: QM 131.

INDEX

- Ascidians: QL 613.
 Ascomycetes: QK 623.
 Asexual reproduction: QH 475-479.
 Association of ideas: QP 395.
 Assyro-Babylonian astronomy: QB 19.
 Astatics: QA 831.
 Asteroids (*see* Planets, minor)
 Astrolabes: QB 85.
 Astrology: QB 25-26.
 Astronomical instruments: QB 85-135.
 Astronomical models: QB 67.
 Astronomical myths and legends: QB 55.
 Astronomical observatories: QB 81-84.
 Observations: QB 4.
 Astronomical photography: QB 121.
 Astronomical photometry: QB 135.
 Photometric catalogues: QB 815.
 Astronomical spectroscopy: QB 465.
 Solar: QB 551.
 Stellar: QB 871-903.
 Astronomy: QB
 Assyro-Babylonian: QB 19.
 Chaldean: QB 19.
 Chinese: QB 17.
 Egyptian: QB 20.
 Greek: QB 21.
 Hebrew: QB 19.
 Hindu: QB 18.
 Latin: QB 22.
 Spherical and practical: QB 145-237.
 Theoretical: QB 351-421.
 [Astronomy, Nautical in VK]
 Astrophysics: QB 461.
 Asymptotes: QA 565, 559.
 Atmosphere
 Circulation: QC 931.
 Exploration of upper regions: QC 879.
 Mechanics and thermodynamics:
 QC 880.
 Atmospheres, planetary: QB 505.
 Atmospheric absorption: QC 911.
 Atmospheric electricity: QC 961-972.
 Atmospheric nucleation: QC 918.
 Atmospheric pressure: QC 885-896.
 Atmospheric temperature: QC 901-906.
 Atolls: QE 565.
 Atomic theory: QD 461.
 Atomic weights: QD 463-464.
 Atoms: QC 173.
 Disintegration: QC 721.
 Space arrangement: QD 481.
 Attention: QP 405.
 Attractions: QA 825.
 Ellipsoids: QA 827.
 Audition, limits of: QP 463.
 Auks: QL 696. A3
 Aurora: QC 971-972.
 Ausdehnungslehre: QA 259.
 Automorphic functions: QA 351.
 Axioms: QA 481-681.
 Azimuth: QB 207.
 Azo-compounds: QD 341.
- ### B
- Bacteriology: QR.
 Balance: QC 107.
 [Ballistics in UF]
 Balloons, meteorological observations:
 QC 879.
 Bark: QK 648, 688.
 Barnacles: QL 444.
 Barometer
 Aneroid: QC 896.
 Mercury: QC 886.
 Barometric hypsometry: QC 895.
 Base measuring and apparatus: QB 303.
 Basidiomycetes: QK 627-629.
 Batrachia: QL 641-669.
 Fossil: QE 867-868.
 Bats: QL 737.C5.
 Batteries, electric: QC 603-605.
 Bears: QL 737.C2, QL 795.B4.
 Beats (sound): QC 233.
 Beaver: QL 737.R6.
 Becquerel rays: QC 721.
 Beer, diseases: QR 151.
 Bees: QL 568.A6. [Cf. SF 521-533]
 Beetles: QL 571-597.
 Bells, vibrations of: QC 235.
 Benzene compounds: QD 331-369.
 Bernoulli's numbers: QA 246.
 Bessel's functions: QA 408.
 [Bible and science in B]
 Bible, Birds of: QL 699.
 Bible botany: QK 83.
 Bible natural history: QH 82.
 Bible zoology: QL 83.
 [Bibliography of science in Z]
 Bile: QP 197.
 Binary forms: QA 201.
 Binocular vision: QP 487.
 Binomial equations: QA 245.
 Binomial theorem: QA 161.
 Biogenesis: QH 325.
 Biography: Q 141-143.
 Anatomists: QM 16.
 Astronomers: QB 35-36.

INDEX

Biography—Continued.

- Bacteriologists: QR 31.
- Botanists: QK 26-31.
- Chemists: QD 21-22.
- Electricians: QC 514-515.
- Geologists: QE 21-22.
- Mathematicians: QA 28-29.
- Meteorologists, etc.: QC 805.
- Mineralogists: QE 361.
- Naturalists: QH 26-31.
- Paleontologists: QE 707.
- Physicists: QC 15-16.
- Physiologists: QP 25-26.
- Zoologists: QL 26-31.
- Biological chemistry: QD 415, QH 345, QP 501-801.
- Biological stations: QH 323.
- Biology: QH 301-671.
- Biquadratic equations: QA 215.
- Birds: QL 671-699.
 - Eggs and nests: QL 675.
 - Fossil: QE 871-875.
 - Migration: QL 754, 698.
- Birds of paradise: QL 696.P2.
- Birds of prey: QL 696.A2.
- Bison: QL 737.U5.
- Bivalves: QL 430.6-7.
 - Fossil: QE 811-812.
- Black body: QC 475.
- Blackbirds: QL 696.P2.
- Bladder: QL 872; QM 411.
- Blood: QP 91-95.
 - Circulation: QP 101.
 - [Hematology in RB]
- Blood vessels: QL 835; QM 191.
- Blowpipe: QD 87.
- Blushing: QP 401.
- Boiling points: QD 518.
- Bolometer: QC 338.
- Bone tissue: QM 569.
- Bones
 - Animal: QL 821.
 - Human: QM 101-117. [Cf. GN]
- Bosses, geology: QE 611.
- Botanical chemistry: QK 865-866.
- Botanical gardens: QK 71-73.
- Botanical laboratories: QK 78.
- Botanical museums: QK 79.
- Botany: QK
 - Anatomy and histology: QK 671-705.
 - Classification: QK 91-95.
 - Ecology: QK 901-929.
 - Embryology: QK 665.
 - Floras: QK 110-474.

Botany—Continued.

- Geographical distribution: QK 101.
- Morphology and organography: QK 641-662.
- Phylogeny: QK 667.
- Physiology: QK 711-899.
- Teratology: QK 664.
- Botany, fossil: QE 901-995.
- Botany, medical: QK 99. [Cf. RS]
- Brachiopoda: QL 395-399.
 - Fossil: QE 796-797.
- Brain
 - Comparative anatomy: QL 933-937.
 - Human anatomy: QM 455.
 - Physiology: QP 376-425.
- Branchial respiration: QL 846.
- Branching of plants: QK 651, 690.
- Breasts: QM 495.
- Breathing: QP 121.
- Bryophyta: QK 535-563.
- Bryozoa: QL 395-399.
 - Fossil: QE 798-799.
- Budding (reproduction): QH 479.
- Bursæ mucosæ: QM 485.
- Butterflies: QL 541-562.
- Buzzards: QL 696.A2.

C

- Cactaceæ: QK 495.C11.
- Cenozoic (*see* Cenozoic)
- Calamites: QE 965.
- Calculating machines: QA 75.
 - [Mechanical devices, bookkeeping in HF 5689]
- Calculus: QA 300-303.
 - Differential: QA 304-306.
 - Integral: QA 308-311.
 - of differences: QA 281.
 - of operations: QA 253.
 - of variations: QA 315-316.
- Calorimeters and calorimetry: QC 291-297.
- Calyx: QK 656, 695.
- Cambrian
 - Paleobotany: QE 916.
 - Paleontology: QE 726.
 - Stratigraphic geology: QE 656.
- Camphors: QD 416.
- Capillarity: QC 183.
 - Electro-capillary phenomena: QC 577.
- Capillary blood vessels: QL 835; QM 191.
- Carbocyclic compounds: QD 331-391.
- Carbohydrates: QD 321; QP 701.

INDEX

- Carboniferous
 - Paleobotany: QE 919.
 - Paleontology: QE 729.
 - Stratigraphic geology: QE 671-674.
- Carnivora: QL 737.C2.
 - Fossil: QE 882.C1-4.
- Cartilage: QL 567.
- Cassowaries: QL 696.C3.
- Cat: QL 737.C2.
 - Stories and anecdotes: QL 795.C2.
- Catalytic action: QD 501.
- Cathode rays: QC 711.
- Cave fauna: QL 117.
- Celestial mechanics: QB 351.
- Celestial sphere and coordinates: QB 147.
- Cell, biology: QH 581-671.
- Cenozoic
 - Paleobotany: QE 925-931.
 - Paleontology: QE 735-741.
 - Stratigraphic geology: QE 690-699.
- Centipedes: QL 449.
- Centers of mass: QA 839.
- Cephalopoda: QL 430. 2-3.
 - Fossil: QE 806-807.
- Cerebellum: QM 455; QP 379.
- Cerebrum: QM 455; QP 381-385.
- Cetacea: QL 737.C4.
 - Fossil: QE 882.C5.
- Chaetognatha: QL 391.C6.
- Chains, equilibrium of: QA 835.
- Chameleons: QL 666.R4.
- Chance: QA 273.
- Change of state, heat: QC 301.
- Characeae: QK 565-580.
- Chelonia: QL 666.C 5.
 - Fossil: QE 862.C 5.
- Chemical affinity: QD 501.
- Chemical apparatus: QD 53.
- Chemical crystallography: QD 951.
- Chemical elements: QD 466-467.
- Chemical equilibrium: QD 501.
- Chemical laboratories: QD 51.
- Chemical manipulation: QD 61.
- Chemical nomenclature: QD 7.
- Chemical reactions: QD 73.
 - Velocity: QD 501.
- Chemical reagents: QD 77.
- Chemistry: QD
 - Analytic: QD 71-142.
 - Botanical: QK 865-866.
 - Inorganic: QD 151-199.
 - Organic: QD 251-449.
 - Physical and theoretical: QD 453-601.
 - Physiological: QP 501-801.
- Chinese astronomy: QB 17.
- Chiroptera: QL 737.C 5.
 - Fossil: QE 882.C 8.
- Chlorophyll: QK 882-887.
- Chromatic aberration: QC 383-385.
- Chromatin: QH 599.
- Chromosphere: QB 528.
- Chronograph: QB 107.
- Chronometers: QB 107. [Cf. VK]
- Cinchona: QK 495.C57.
- Circle: QA 484, 557.
- Circle squaring: QA 467.
- Circular functions: QA 342.
- Circulation of the blood: QP 101.
- Circulatory organs
 - Comparative anatomy: QL 835-841.
 - Human anatomy: QM 181-197.
- Classification
 - Animals: QL 351-352.
 - (See also each sub-division of the animal kingdom)
 - Bacteria: QR 81.
 - Natural history: QH 83.
 - Plants: QK 91-95, 97.
 - Rocks: QE 425.
 - Sciences: Q 177.
 - Stars: QB 881.
- Cleavage
 - Crystals: QD 933.
 - Rocks: QE 605.
- Climatic variations in geological time:
 - QE 698.
- Climatology: QC 981-999.
 - [Agricultural in S 600]
 - [Medical in RA 793-953]
 - Phenological: QH 544.
- Climbing plants: QK 773.
- Clocks, astronomical: QB 107.
- Clouds: QC 921-923.
- Cnidaria: QL 375-379.
- Coagulation of the blood: QP 91.
- Coal measures: QE 673.
 - Fossil flora: QE 919.
- Cœcilians: QL 668.A6.
- Cœlenterata: QL 375-379.
 - Fossil: QE 777-779.
- Cœlostet: QB 97.
- Coherer: QC 665.
- Coleoptera: QL 571-597.
- Collecting specimens: QH 61-63.
 - Botany: QK 61.
 - Entomology: QL 465.
 - Zoology: QL 61-62.
- Collimation error: QB 154.

INDEX

- Collineation: QA 601.
- Colloidal state: QD 549.
- Colonies, biology: QH 549.
- Color: QC 495.
- Color of animals: QL 767.
- Color of flowers
 - Nomenclature: QK 669.
 - Pollination adaptations: QK 926.
- Color sensation: QP 481.
- Coloration of sky: QC 976.C6.
- Colored compounds, organic: QD 441.
- Combinations: QA 165.
- Combustion: QD 516.
- Comets: QB 721-732.
 - Determination of orbits: QB 357.
- Comparative anatomy: QL 801-949.
- Comparative physiology: QP 31-33.
- Compass deviation: QC 849.
- Compass, solar: QB 105.
- Complex numbers: QA 244, 255.
- Complexes: QA 608.
- Compressibility of liquids: QC 284.
- Conchology: QL 401-432.
- Concretions, geology: QE 581.
- Condensers, electricity: QC 587.
- Conduction
 - Electricity: QC 607-611.
 - Heat: QC 321-323.
- Conductivity of electrolytes: QD 561.
- Cone: QA 561.
- Conformal representation of surfaces:
 - QA 646.
- Congresses, general: Q 101.
 - (For special sciences *see* form division Societies)
- Congruences
 - Geometry: QA 605.
 - Numbers: QA 242-244.
- Conics: QA 485, 559.
- Conics, spherical: QA 561.
- Coniferae: QK 495.C75.
 - Fossil: QE 977.
- Connective tissue: QM 563.
- Connexes: QA 608.
- Consciousness: QP 411.
- Conservation of energy: QC 73.
- Consonance: QP 465.
- Constant of aberration: QB 163.
- Constant of gravitation: QB 341.
- Constellations: QB 802.
 - Popular works: QB 63.
- Contact transformations: QA 385.
- Continuous groups: QA 385.
- Convection: QC 327.
- Cooling laws: QC 331.
- Coordinates
 - Analytic geometry: QA 556.
 - Spherical astronomy: QB 147.
- Copulation: QH 481.
- Coral islands and reefs: QE 565.
- Corals: QL 377. C 5-7.
 - Fossil: QE 778.
- Cormorants: QL 696. S 6.
- Corolla
 - Anatomy: QK 696.
 - Morphology: QK 657.
- Corona, sun: QB 529.
 - (*See also* Eclipses, solar: QB 541-551)
- Corpuscles, blood
 - Red: QP 91.
 - White: QP 95.
- Corpuscles, electricity: QC 721.
- Corpuscular theory of light: QC 402.
- Cosmical physics: QC 806, 831-845, 883.
- Cosmogony: QB 981.
 - Geological: QE 506.
- Coumarone: QD 405.
- Couples, mechanics: QA 831.
- Covariants: QA 201.
- Cowper's glands: QM 416; QP 257.
- Crabs: QL 444.
 - Fossil: QE 817. D 3.
- Cranes: QL 696. A 4.
- Cranial nerves: QL 939; QM 471; QP 366.
 - [Craniology in GN]
- Craters: QE 522.
- Cretaceous
 - Paleobotany: QE 924.
 - Paleontology: QE 734.
 - Stratigraphic geology: QE 685-688.
- Crinoidea: QL 384.C8.
 - Fossil: QE 782.
- Critical point: QC 307.
- Crocodiles: QL 666.C9.
- Crustacea: QL 435-445.
 - Fossil: QE 816-817.
- Cryoscopy: QD 545.
- Cryptogamic botany: QK 505-635.
- Crystallization: QD 548.
- Crystallography: QD 901-999.
- Cube duplication: QA 469.
- Cube root: QA 119.
 - Tables: QA 49.
- Cubic curves: QA 565-567.
- Cubic equations: QA 215.
- Cuckoo: QL 696.C5.
- Culture methods (bacteriology): QR 66.

INDEX

- Currents, electric: QC 601-645.
 Curvature
 Curves: QA 624.
 Surfaces: QA 634.
 Curves
 Application of transcendental functions to: QA 605.
 Classification: QA 603.
 Rectification and quadrature: QA 626.
 Systems: QA 607.
 Curves, higher plane algebraic: QA 565-567.
 Curves on surfaces: QA 643.
 Curves, skew algebraic: QA 581.
 Curves, transcendental: QA 628.
 Curvilinear coordinates: QA 641.
 Cuttle-fish: QL 430.3.
 Cyanogen: QD 181.C15.
 Cycadaceæ: QK 495.C995.
 Fossil: QE 975.
 Cycloids (curves): QA 623.
 Cycloids, mixed (chemistry): QD 401-409.
 Cyclones: QC 941-951.
 Cyclostomi: QL 638.1
 Cyclotomy: QA 245.
 Cytology: QH 581-671.
 Cytoplasm: QH 591.
- D
- Dairy products, bacteriology: QR 121.
 Darwin's works: QH 365.
 Death: QH 559, 671; QP 87.
 Decimal system, weights and measures: QC 91-94.
 Deer: QL737. U.
 Definite integrals: QA 311.
 Deformation of surfaces: QA 648.
 Degeneration: QH 556.
 Deluge: QE 507.
 Dendrology: QK 475-494.
 Density, measurement: QC 111.
 Vapors: QD 533.
 Density of earth: QB 341.
 Denudation: QE 571-597.
 Descent theory: QH 365-367.
 of man: QH 368.
 Descriptive geometry: QA 501-521.
 Determinants: QA 191.
 Determinative mineralogy: QE 367-369.
 Development: QH 491
 (*see also* Embryology)
- Deviation of the compass: QC 849.
 Devonian
 Paleobotany: QE 918.
 Paleontology: QE 728.
 Stratigraphic geology: QE 665.
 Dew formation: QC 929. D5
 Dew plants: QK 916.
 Dew-point instruments: QC 916.
 Dialing: QB 215.
 Dialysis: QD 549.
 Diamagnetism: QC 771.
 Diamonds: QE 393.
 Diaphragm: QL 851.
 Diatomaceæ: QK 569.
 Diazo-compounds: QD 341.
 Dictionaries: Q 121-123
 Astronomy: QB 14.
 Botany: QK 7-9.
 Chemistry: QD 5.
 Electricity: QC 505.
 Geology: QE 5.
 Mathematics: QA 5.
 Mineralogy: QE 355.
 Natural history: QH 13.
 Paleontology: QE 703.
 Physics: QC 5.
 Physiology: QP 11.
 Zoology: QL 7-9.
 Dielectric: QC 585.
 Difference equations: QA 431.
 Differences, calculus of: QA 281.
 Differential calculus: QA 304-306.
 Differential equations: QA 371-377.
 Differential forms and invariants: QA 381.
 Differential geometry: QA 641-649.
 Diffraction
 Light: QC 415.
 Sound: QC 233.
 Diffusion: QC 185; QD 543.
 Digestion: QP 145-156.
 Digestive system
 Comparative anatomy: QL 856-867.
 Human anatomy: QM 301-353.
 Dikes, geology: QE 611.
 Dinosauria: QE 862.D5
 Diophantine analysis: QA 242.
 Dip circle: QC 819-820.
 Dipnoi: QL 638.3
 Diptera: QL 531-538.
 Directional calculus: QA 259.
 Directories: Q 145.
 Botanists: QK 35.
 Geologists: QE 23.
 Zoologists: QL 35.

INDEX

- Discriminants: QA 191-192.
 Diseases, bacteriology: QR 201.
 in animals: QR 301-325.
 in plants: QR 351.
 Dispersion: QC 431-435.
 Dissection: QM 34-39.
 Dissemination, plant ecology: QK 929.
 Dissociation: QD 517.
 Electrolytes: QD 561.
 Dissonance: QP 465.
 Distillation, fractional: QD 526.
 Diurnal variation
 Atmospheric pressure: QC 891.
 Atmospheric temperature: QC 903.
 Terrestrial magnetism: QC 831.
 Divisibility of numbers: QA 242.
 Division, arithmetic: QA 115.
 Dog: QL 737.C2.
 Stories and anecdotes: QL 795.D6.
 Domes, observatories: QB 84.
 Double stars
 Observations, catalogues, etc: QB 821-829.
 Spectroscopy: QB 903.
 Theory: QB 421.
 Dragon-flies: QL 513.02.
 Droughts: QC 929.D 8.
 Drift: QE 697.
 Ducks: QL 696.A5 [Cf. SK 331, SF 505]
 Ductless glands
 Comparative anatomy: QL 868.
 Human anatomy: QM 371.
 Physiology: QP 187.
 Duplication of the cube: QA 469.
 Dust-storms: QC 958.
 Dyas: QE 674.
 [Dye-stuffs in TP]
 Dynamic geology: QE 501-597.
 Dynamics: QA 845-871.
 Particle: QA 851-855.
 Rigid: QA 861-863.
 [Dynamoes in TK]
- E**
- Eagles: QL 696.A2.
 Ear
 Anatomy: QL 948; QM 507.
 Physiology: QP 461.
 Earth
 Age: QE 508.
 Crust: QE 511.
 Density: QB 341.
 Earth—Continued.
 Figure: QB 281-283.
 Interior: QE 509.
 Orbital motion, etc.: QB 374, 631.
 Rotation: QB 633.
 Earth currents: QC 845.
 Earth magnetism: QC 811-849.
 Earth temperature: QC 907.
 Earthquakes: QE 531-541.
 Magnetic effects: QC 843.
 Earthworms: QL 391.04; QL 393-394.
 Ebullition: QC 304.
 Echinodermata: QL 381-385.
 Fossil: QE 781-783.
 Eclipses, calculation and prediction:
 QB 175.
 Eclipses, lunar: QB 579.
 Eclipses, solar: QB 541-551.
 Magnetic effects: QC 837.
 Ecliptic: QB 171.
 Ecology: QH 541-549.
 Animal: QL 751-775.
 Plant: QK 901-929.
 Edentata: QL 737.E2.
 Fossil: QE 882.E2.
 Eels: QL 638.
 Eggs: QL 675.
 Fossil: QE 875.
 Egyptian astronomy: QB 20.
 Elasmobranchii: QL 638.7-9.
 Elastic tissue: QM 563.
 Elasticity
 Mathematical theory: QA 931-935.
 Experimental topics: QC 191.
 Electric apparatus and instruments:
 QC 543-544.
 Electric arc: QC 705.
 Electric batteries: QC 603-605.
 Electric capacity: QC 589.
 Electric currents: QC 601.
 Measurement: QC 615.
 Electric currents, alternating: QC 641.
 Electric discharges: QC 701-715.
 Electric furnace: QD 521.
 Electric machines: QC 573.
 Electric measurements: QC 535.
 Electric organs of fishes, etc: QP 348.
 Electric potential: QA 825, QC 581.
 Electric resistance: QC 607-611.
 Electric spark: QC 703.
 Electric thermometry: QC 274.
 Electric units and standards: QC 536-537.
 Electric waves: QC 661-665.

INDEX

- Electricity: QC 501-721.
 - Influence on growth of plants: QK 758.
- Electricity, atmospheric: QC 961-969.
- Electro-capillary phenomena: QC 577.
- Electrochemistry: QD 115, 263, 553-561.
- Electrodynamics: QC 631.
- Electrodynamometer: QC 544.E3.
- Electrolysis: QD 553-559.
 - Chemical analysis: QD 115.
 - Synthesis of organic compounds: QD 263.
- Electrolytes, conductivity and dissociation: QD 561.
- Electromagnetic theory: QC 661.
- Electromagnets: QC 760.
- Electrometers: QC 544.E4.
- Electromotive force: QC 618.
- Electrons: QC 721.
- Electro-optical phenomena: QC 673.
- Electrophysiology: QP 341.
- Electrostatics: QC 571-595.
- Elements, chemical: QD 466-467.
- Elephants: QL 737.U5, QL 795.E4.
- Elimination: QA 192.
- Ellipse: QA 485, 559.
- Ellipsoidal harmonics: QA 409.
- Ellipsoids: QA 561.
 - Attractions and potential: QA 827.
- Elliptic functions: QA 343.
- Embryo-sac, botany: QK 659, 698.
- Embryology
 - Animal: QL 951-973.
 - Human: QM 601-611.
 - Plant: QK 665.
- Emotions, expression of: QP 401.
- Emu: QL 696.C3.
- Energy, conservation and dissipation of: QC 73.
- Entomology: QL 461-597.
- Entozoa: QL 392.
- Entrophy: QC 318.
- Enzymes: QP 601.
- Eocene
 - Paleobotany: QE 927.
 - Paleontology: QE 737.
 - Stratigraphic geology: QE 692.
- Eozoon canadensis: QE 724.
- Ephemerides: QB 7-8.
- Epicycloids: QA 623.
- Epigenesis: QH 491.
- Epiphytes: QK 922.
- Epithelium: QM 561.
- Equation of time: QB 217.
- Equations
 - Graphic methods: QA 219.
 - Numerical solutions: QA 218.
 - Theory: QA 211-215.
- Equations, binomial: QA 245.
- Equations, difference: QA 431.
- Equations, differential: QA 371-377.
- Equations, functional: QA 431.
- Equations, indeterminate: QA 242.
- Equations, simultaneous: QA 195.
- Equatorial mountings: QB 97.
- Equinoxes, precession of: QB 165.
- Erosion: QE 571-597.
- Errors of adjustment, astronomical observations: QB 154.
- Errors of observation, mathematical theory: QA 275.
- Eruptive rocks: QE 461.
- Essential oils: QD 416.
- Esters: QD 305, 341.
- Ether (physics): QC 177.
- Ethers (chemistry): QD 305, 341.
- [Ethnology in GN]
- Eucalyptus: QK 495.E 86.
- Euclid's elements
 - Greek texts and translations: QA 31.
 - School textbooks: QA 451.
- Eulerian integrals: QA 351.
- Eustachian tube: QM 507.
- Evaporation: QC 304.
- Evolution: QH 361-371.
 - Paleontological works: QE 721.
- Excretion: QP 211.
- Excretory organs: QL 872; QM 404-411.
- Expansion: QC 281.
 - of gases: QC 286.
 - of liquids: QC 284.
 - of solids: QC 282.
- Expeditions and voyages: Q 115.
 - Botany: QK 5.
 - Natural history: QH 11.
 - Zoology: QL 5.
- Explosion: QD 516.
- Exponential functions: QA 342.
- Expression of emotions: QP 401.
- Extinct animals and plants (*see* Paleontology)
- Extremities, anatomy: QM 117, 165, 548-549.
- Eye
 - Comparative anatomy: QL 949.
 - Human anatomy: QM 511.
 - Optics and physiology: QP 475-495.
 - (*See also* Ophthalmology in RE)

INDEX

F

- Factors
 - Algebraic expressions: QA 161.
 - Numbers: QA 242.
 - Tables: QA 51.
- Faculae: QB 525.
- Fatigue
 - Elastic: QC 191.
 - Mental: QP 421.
 - Muscular: QP 321.
- Fats
 - Organic chemistry: QD 305.
 - Physiological chemistry: QP 751.
- Fatty compounds: QD 301-319.
- Faults, structural geology: QE 606.
- Faunas: QL 151-345.
- Fecundation
 - Animals: QP 273.
 - Plants: QK 827.
- Female organs of generation
 - Comparative anatomy: QL 881.
 - Human anatomy: QM 421.
 - Physiology: QP 261-281.
- Fermentation
 - Physiological chemistry: QP 601.
 - Plant physiology: QK 896.
 - Technical mycology: QR 151.
- Ferns: QK 521-532.
 - Fossil: QE 961.
- Fertilization: QH 485.
- Field work
 - Geodesy: QB 311.
 - Geology: QE 45.
- Figure of the earth: QB 281-283.
- Finite differences: QA 281.
- Fireballs: QB 753.
- Fire-flies: QL 596.
- Fishes: QL 614-639.
 - Fossil: QE 851-852.
- Fission, reproduction: QH 477.
- Flame: QD 516.
- Flames, sensitive: QC 241.
- Flat-worms: QL 391.P7.
- Flexure
 - Astronomical instruments: QB 154.
 - Beams: QA 935.
- Flies: QL 531-538.
- Floating bodies: QA 907; QC 147.
- Floods: QC 929.F6.
- Floral emblems: QK 84.
- Floras: QK 110-474.
- Flower
 - Anatomy: QK 692-698.
 - Morphology: QK 653-659.
- Flowers, popular handbooks: QK 118.
- Flowers, language of: QK 84.
- Flowers, national: QK 85.
- Fluids: QC 142-168.
- Fluorescence: QC 477.
- Fluxions: QA 302.
- Fœtal membranes: QL 973; QM 611.
- Fog: QC 929.F7.
- Food, biology: QH 521.
 - of animals: QL 756; QP 141.
 - of plants: QK 867.
- Food, digestion of: QP 145-156.
- Footprints, fossil: QE 845.
- Foraminifera: QL 368.F6.
 - Fossil: QE 772.
- Force and energy: QC 73.
- Forces and couples: QA 823, 831.
- Forests, climatic influence of: QC 929.F8.
 - [Cf. SD]
- Forms
 - Binary, ternary, etc: QA 201.
 - Differential: QA 381.
 - Numbers: QA 243-244.
- Formule
 - Chemical: QD 471.
 - Mathematical: QA 41.
- Fossils: QE 701-995.
- Foundations of arithmetic: QA 248.
- Foundations of geometry: QA 681.
- Fourier's series: QA 404.
- Fourth dimension: QA 691-699.
- Fox: QL 737.C2, QL 795.F8.
- Fractional distillation: QD 526.
- Fractions, arithmetic: QA 117.
 - Methods of teaching: QA 137.
- Fractions, continued: QA 295.
- Fraunhofer's lines: QC 455.
- Freezing, effects of, on plants: QK 756.
- Freezing points of solutions: QD 545.
- French language—Science readers: Q 211.
- Fresh-water biology: QH 96-99; QL 141-147.
- Friction: QC 197.
- Frictional machines, electricity: QC 573.
- Frogs: QL 668.E2.
- Frost: QC 929.H6.
- Fruits
 - Anatomy: QK 699.
 - Morphology: QK 660.
- Fruits, fossil: QE 995.
- Functional equations: QA 431.
- Functions: QA 331-351.
 - Abelian: QA 345.
 - Algebraic: QA 341.

INDEX

Functions—Continued.
 Automorphic: QA 351.
 Bessel's: QA 408.
 Circular: QA 342.
 Elliptic: QA 343.
 Exponential: QA 342.
 Gamma: QA 351.
 Hyperbolic: QA 342.
 Hyperelliptic: QA 345.
 Hypergeometric: QA 351.
 Lamé's: QA 409.
 Laplace's: QA 406.
 Legendre's: QA 406.
 Logarithmic: QA 342.
 Modular: QA 343.
 Multiform: QA 333.
 Numerical: QA 246.
 Symmetric: QA 212.
 Theta: QA 345.
 Toroidal: QA 411.
 Uniform: QA 332.
 Fungi: QK 601-635.
 Fossil: QE 958.
 Fusion: QC 303.

G

Gall bladder: QL 867; QM 351; QP 197.
 Galois theory: QA 171, 211, 214.
 Galvanometers: QC 544.G2.
 Gamma functions: QA 351.
 Ganglia: QL 931; QM 575.
 Ganoidei: QL 638.5.
 Gas thermometers: QC 273.
 Gases
 Analysis: QD 121.
 Electric discharges through: QC 711.
 Expansion: QC 286.
 Kinetic theory: QC 175.
 Liquefaction: QD 535.
 Manipulation: QD 531.
 Mechanics: QC 161-168.
 Specific heats: QC 297.
 Vibrations in tubes, etc: QC 241.
 Gasteropoda: QL 430.4-5.
 Fossil: QE 808-809.
 Gastric juice: QP 193.
 Gastrotricha: QL 391.G 2.
 Gault: QE 685.
 Gaussian coefficients, terrestrial magnetism: QC 827.
 Geese: QL 696.A 5. [Cf. SK 331, SF 505]

Gegenschein: QB 763.
 Gemination, reproduction: QH 479.
 Gems, mineralogy: QE 392-394.
 Generation, alternation of: QH 489.
 Generation, spontaneous: QH 325.
 Generative organs
 Comparative anatomy: QL 876-881.
 Human anatomy: QM 416-421.
 Physiology: QP 251-281.
 Geodesy: QB 281-338.
 Geodetic astronomy: QB 201-237.
 Geographical distribution, natural history: QH 84.
 Botany: QK 101.
 Zoology: QL 101.
 (See also under each subdivision of the animal kingdom)
 Geographical position, determination of: QB 201-235.
 [Geography, mathematical in GA]
 [Geography, physical in GB]
 Geological museums: QE 51, 386, 716.
 Geological surveys: QE 61-349.
 Geological time: QE 508.
 Geology: QE
 Dynamic: QE 501-597.
 Stratigraphic: QE 651-699.
 Structural: QE 601-611.
 Geometrical drawing: QA 464, 497.
 Geometrical optics: QC 381.
 Geometry
 Analytic: QA 551-581.
 Descriptive: QA 501-521.
 Differential: QA 641-649.
 Enumerative: QA 607.
 Foundations of: QA 681.
 Infinitesimal: QA 621-638.
 Non-Euclidean: QA 685.
 Plane and solid: QA 451-491.
 Projective: QA 471, 554.
 Geophysics: QC 806, QE 501.
 Geotropism: QK 776.
 Gephyrea: QL 391.G5.
 Germ plasm, heredity: QH 431.
 Germ theory of disease, bacteriology: QR 175.
 German language—Science readers: Q 213.
 Germination: QK 740.
 Gestation: QP 281.
 Geysers: QE 528.
 Gills: QL 846.
 Glacial epoch: QE 697-698.
 Glaciers and glacial erosion: QE 576.

INDEX

- Glands
 Botany: QK 662, 703.
 Comparative anatomy: QL 865-867.
 Human anatomy: QM 325-353.
 Physiology: QP 190-246.
 Glands, ductless: QL 868; QM 371; QP 187.
 Glass (for optical instruments): QC 375.
 Globes, use of: QB 66.
 Glow-worms: QL 596.
 Glucoses: QD 321.
 Glucosides
 Chemistry: QD 325.
 Pharmacology: QP 925.
 Goniometric measurements: QD 915.
 Gorilla: QL 737.P9.
 Graphic algebra: QA 219.
 Graphic methods for discussion of observations: QA 277.
 [Graphic statistics in TG]
 Graptolites: QE 779.
 Grasses: QK 495.G74.
 Grasshoppers: QL 508.
 Gravitation, constant of: QB 341.
 Gravitation, theories of: QC 178.
 Gravity, center of: QA 839.
 Gravity determinations: QB 331-335.
 Greek astronomy: QB 21.
 Greek mathematics
 Texts and commentaries: QA 31.
 History: QA 21-22.
 Greensand: QE 685.
 Gregariousness of animals: QL 775.
 Groin: QM 161.
 Ground temperature: QC 907.
 Groups: QA 171.
 Groups, continuous: QA 385.
 Groups of points and curves: QA 603.
 Growth
 Botany: QK 731-769.
 General biology: QH 511.
 Physiology: QP 84.
 Gulls: QL 696.G3.
 Gynoecium: QK 659, 698.
 Gyroscope: QA 862. G9.
- H
- Hail: QC 929. H1.
 Hair: QL 942; QM 488.
 Hall effect: QC 611.
 Halophytes: QK 922.
 Halos: QC 976.H1.
 Harmonic analysis: QA 401-411.
 Hawks: QL 696.A2.
 Hearing: QP 461-469.
 Heart
 Comparative anatomy: QL 838.
 Human anatomy: QM 181.
 Physiology: QP 101.
 Heat: QC 252-338.
 Animal heat: QP 135.
 Influence on growth of plants: QK 755.
 Influence on living cells: QH 653.
 Infra-red spectrum: QC 457.
 Interior of the earth: QE 509.
 Production by living cells: QH 635.
 Radiation: QC 331, 475.
 Solar radiation: QB 531; QC 911.
 Thermal properties of crystals: QD 937.
 Thermochemistry: QD 511.
 Heat, mechanical equivalent of: QC 312.
 Heat engine: QC 311.
 Heathes: QK 495. E68.
 Hedgehogs: QL737.I5.
 Heliostat
 for eclipse observations: QB 97.
 for optical work: QC 373.H5.
 Heliotropism: QK 776.
 Hemichordata: QL 611.
 Hemiptera: QL 521-524.
 Hepaticæ: QK 551-563.
 Herbaria: QK 75-77.
 Herborizing: QK61.
 Heredity: QH 431.
 Herons: QL 696.H4.
 Herpetology: QL 641-669.
 Hertzian waves: QC 661-665.
 Heterocyclic compounds: QD 401-409.
 Hibernation: QL 755.
 Hindu astronomy: QB 18.
 Hirudinea: QL 391. H6.
 Histology
 Animal: QM 551-575.
 Plant: QK 671-705.
 History of science: Q 125-127.
 Anatomy: QM 11.
 Astronomy: QB 15-32.
 Bacteriology: QR 21.
 Biology: QH 305, 361.
 Botany: QK 15-21.
 Chemistry: QD 11-18, 72.
 Electricity: QC 507.
 Geodesy: QB 281.
 Geology: QE 11-13.
 Mathematics: QA 21-27.
 Mechanics: QA 802; QC 122.

INDEX

History of science—Continued.

- Meteorology: QC 855-857.
- Mineralogy: QE 359.
- Natural history: QH 15-21.
- Paleontology: QE 705, 904.
- Petrology: QE 427.
- Physics: QC 7.
- Physiology: QP 21.
- Psychology, experimental: QP 353.
- Terrestrial magnetism: QC 813.
- Weights and measures: QC 83-86.
- Zoology: QL 15-21.
- Hoar frost: QC 929.H6.
- Holocephali: QL 638.7.
- Hoofs: QL 942.
- Horns: QL 942.
- Horses: QL 737.U5.
- Hot springs: QE 528.
- Human anatomy: QM
- Human embryology: QM 601-611.
- Human physiology: QP
- Humidity: QC 915-917.
- Humming-birds: QL 696.C8.
- Hunger: QP 141.
- Hurricanes: QC 945.
- Hybridization: QH 421-425.
- [Hydraulics in T C]
- Hydrodynamics
 - Analytic: QA 911-929.
 - Experimental: QC 151-159.
- Hydromedusæ: QL 377.H9.
- Hydrometer: QC 111.
- Hydrostatics
 - Analytic: QA 905-907.
 - Experimental: QC 147.
- Hygiene, popular: QP 36-38. [Cf. RA]
- Hygrometers: QC 916.
- Hymenoptera: QL 563-569.
- Hyperbola: QA 485, 559.
- Hyperbolic functions: QA 342.
- Hyperboloid: QA 561.
- Hyperelliptic integrals: QA 345.
- Hypergeometric functions: QA 351.
- Hyperspace: QA 691.
- Hypocycloids: QA 623.
- Hypsometry, barometric: QC 895.
- Hysteresis: QC 761.

I

- Iatro-chemistry: QD 25.
- Ice age: QE 697-698.
- Ice erosion: QE 576.
- Ice plants: QK 916.

- Ichhnology: QE 845.
- Ichthyology: QL 614-639.
- Ichthyosauria: QE 862.12.
- Igneous rocks: QE 461.
- Illuminating apparatus
 - Astronomical instruments: QB 115.
 - Microscope: QH 215.
- Illusions, Optical: QP 495.
- Imaginary quantities: QA 255.
- Imides: QD 305, 341.
- Immunity: QR 181-185.
- Indeterminate analysis: QA 242.
- Indicators, analytic chemistry: QD 77.
- Induction
 - Electromagnetic: QC 631.
 - Electrostatic: QC 581.
 - Magnetic: QC 761.
- Induction coils: QC 645.
- Induction machines: QC 573.
- Inertia, moments of: QA 839.
- Infectious diseases, bacteriology: QR 175-201.
- Infinite: QA 9.
- Infinite series of products: QA 295.
- Infinitesimal calculus: QA 303.
- Infinitesimal geometry: QA 621-638.
- Infinitesimal transformations: QA 385.
- Inflorescence: QK 652, 691.
- Infra-red spectrum: QC 457.
- Infusoria: QL 368.I4; QL 365.
- Inheritance, biology: QH 431.
- Inorganic chemistry: QD 151-199.
- Insectivora: QL 737.I5.
 - Fossil: QE 882.I5
- Insectivorous plants: QK 917.
- Insects: QL 461-597.
 - Fertilization of flowers by: QK 926.
 - Fossil: QE 831-832.
- Instinct: QL 781.
- Instruments (*see* Apparatus and instruments)
- Integral calculus: QA 308-311.
- Integrals: QA 310.
 - Abelian: QA 345.
 - Definite: QA 311.
 - Elliptic: QA 343.
 - Eulerian: QA 351.
 - Hyperelliptic: QA 345.
 - Multiple: QA 311.
- Integument: QL 941-943; QM 481-495.
- Intelligence of animals: QL 751.
- Interference
 - Light: QC 411.
 - Sound: QC 233.

INDEX

Interferometer: QC 411.
 Internationale Erdmessung: QB 294.
 International congresses (*see* Societies)
 Interpolation: QA 281.
 Intestines: QL 863; QM 345; QP 156.
 Intra-mercurial planets: QB 607.
 Invariants: QA 201.
 Differential: QA 381.
 Invertebrates: QL 362-597.
 Fossil: QE 770-832.
 Ionization of gases: QC 711-721.
 Atmosphere: QC 918.
 Ions, migration and velocity in solutions:
 QD 561.
 Irradiation: QP 495.
 Irritability
 Cells: QH 647.
 Plants: QK 771.
 Isobars: QC 889.
 Isomagnetism: QC 825.
 Isomerism: QD 471.
 Isometric projection: QA 505.
 Isoperimetrical problems: QA 316.
 Isothermic surfaces: QA 649.
 Isotherms: QC 901.
 Italian language—Science readers: Q
 215.

J

Jacobson's organ: QL 947.
 Jade: QE 391.J2.
 Jelly fish: QL 377.C8.
 Jena glass: QC 375.
 Jets of liquid: QC 159.
 Jointing, structural geology: QE 605.
 Joints, anatomy: QM 131.
 Jupiter: QB 384, 661.
 Satellites: QB 404.
 Juniper: QK 495.J9.
 Jurassic
 Paleobotany: QE 923.
 Paleontology: QE 733.
 Stratigraphic geology: QE 681-683.
 Juvenile books: Q 163.
 Astronomy: QB 46.
 Botany: QK 49.
 Chemistry: QD 35.
 Geology: QE 29.
 Natural history: QH 48.
 Physics: QC 25.
 Physiology: QP 37.
 Zoology: QL 49.

K

Kaleidoscope: QC 373.K3.
 Kangaroo: QL 737.M3.
 Karyokinesis: QH C05.
 Katydid: QL 508.L8.
 Kerr phenomenon, electro-optics: QC 673.
 Ketones: QD 305, 341.
 Kidneys
 Comparative anatomy: QL 872.
 Human anatomy: QM 404.
 Physiology: QP 211.
 Kinematic geometry: QA 623.
 Kinematics: QA 841.
 of fluids: QA 913.
 [*of machinery in TJ*]
 of vibrations: QC 231.
 Kinetic theory of gases: QC 175.
 Kinetics: QA 845-871.
 Kingfishers: QL 696.C7.
 Kinorhyncha: QL 391.K5.
 Kites in meteorology: QC 879.

L

Labyrinthine sense: QP 471.
 Laboratories: Q 183.
 Anatomical: QM 41.
 Bacteriological: QR 71.
 Biological: QH 321.
 Botanical: QK 78.
 Chemical: QD 51.
 Electrical: QC 541.
 Geological: QE 49.
 Physical: QC 51, 100.
 Physiological: QP 51-53.
 Zoological: QL 69.
 Lactation: QP 246.
 Lagrange's equations: QA 871.
 Lakes
 Biological surveys: QH 98; QL 146.
 Temperature: QC 909.
 Lamellibranchiata: QL 430.6-7.
 Fossil: QE 811-812.
 Lamé's functions: QA 409.
 Lamp-shells: QL 395-399.
 Lampreys: QL 638.1.
 Language of flowers: QK 8.
 Lantern projection: Q 186.
 Laplace's functions: QA 406.
 Larks: QL 696.P2.
 Larynx
 Anatomy: QL 853; QM 255.
 Movements: QP 306.

INDEX

- Latent heat of fusion: QC 303.
 Latitude: QB 231-235.
 Variation: QB 237.
 Lava: QE 461.
 Leaf
 Anatomy: QK 689.
 Morphology: QK 649.
 Least action, dynamics: QA 871.
 Least squares: QA 275
 Lecture experiments
 Chemistry: QD 43.
 Physics: QC 33.
 Leeches: QL 391.H6.
 Lefthandedness: QP 385.
 Legendre's functions: QA 406.
 Legs, anatomy: QM 117, 165, 549.
 Length, standards and measurement of:
 QC 101-102.
 Lenses, optics: QC 385.
 Lepidodendron: QE 971.
 Lepidoptera: QL 541-562.
 Leprosy, bacteriology: QR 201.L5.
 Leucocytes: QP 95.
 Leuconaines: QP 801.P7.
 Leveling, geodetic surveys: QB 296.
 Lias, stratigraphic geology: QE 681.
 Libration, moon: QB 585.
 Lichens: QK 581-597.
 Fossil: QE 958.
 Life: QH 325-347, QP 81.
 Ligaments: QM 141.
 Light: QC 353-495.
 Corpuscular theory: QC 402.
 Electromagnetic theory: QC 670.
 Influence on growth of plants: QK 757.
 Influence on living cells: QH 651.
 Photochemistry: QD 601.
 Production by living cells: QH 641.
 Velocity: QC 407.
 Wave theory: QC 403.
 Lightning: QC 966.
 Lilies: QK 495.L 72.
 Line geometry: QA 608.
 Linear congruences: QA 242.
 Linear differential equations: QA 372.
 Linear substitutions: QA 190.
 Linnæan system, botany: QK 91-92.
 Linnæana: QH 44.
 Linnæus's works
 Botany: QK 91.
 Natural history: QH 43.
 Zoology: QL 352.
 Lion: QL 737.C2.
 Stories and anecdotes: QL 795.L7.
 Liquefaction of gases: QD 535.
 Liquids
 Diffusion: QC 185.
 Expansion and compressibility: QC 284.
 Mechanics: QC 142-159.
 Specific heat: QC 295.
 Viscosity: QC 189.
 Lithology: QE 421-499.
 Liver
 Comparative anatomy: QL 867.
 Human anatomy: QM 351.
 Physiology: QP 185.
 Liverworts: QK 551-563.
 Living matter: QH 325-345.
 Lizards: QL 666.L2.
 Lobsters: QL 444.
 Localization of functions, brain: QP 385.
 Localization of sound: QP 469.
 Locomotion, animal: QP 301-303.
 Locusts: QL 508.A2.
 Loess: QE 697.
 Logarithmic functions: QA 342.
 Logarithms: QA 55-59.
 Logic, algebra of: QA 265.
 Logic of mathematics: QA 9.
 Longitude: QB 225-229.
 Luminescence: QC 477.
 Lunar eclipses: QB 579.
 Lunar theory: QB 391-399.
 Lungs
 Comparative anatomy: QL 848.
 Human anatomy: QM 261.
 Physiology: QP 121.
 Lycopods, fossil: QE 971.
 Lymph: QP 115.
 Lymphatics: QL 841; QM 197.
- M**
- Magic lantern: Q 186.
 Magic squares: QA 165.
 Magnetic action on polarized light:
 QC 675.
 Magnetic disturbances: QC 835.
 Magnetic induction: QC 761.
 Magnetic instruments: QC 819.
 Magnetic observations: QC 825-826, 830.
 Instructions to observers: QC 820.
 Magnetic observatories: QC 818.
 Magnetic surveys: QC 825-826.
 Magnetic variations: QC 828-833.
 Magnetism: QC 751-771.
 Magnetism, terrestrial: QC 811-849.

INDEX

- Magnetism of ships:** QC 849.
Magnetometer: QC 819-820.
Magneto-optical phenomena: QC 675.
Magnets: QC 757.
Malacology: QL 401-432.
Malaria, bacteriology: QR 201.M2.
Male organs of generation
 Comparative anatomy: QL 878.
 Human anatomy: QM 416.
 Physiology: QP 255-257.
 (*See also* Spermatogenesis)
Malformations
 Animal: QL 991.
 Human: QM 691.
 Plant: QK 664.
Mammary glands
 Anatomy: QM 495.
 Physiology: QP 246.
Mammals: QL 701-739.
 Fossil: QE 881-882.
Mammoth: QE 882.U7.
Man, Descent of: QH 368.
Manipulation, chemistry: QD 61.
Manometers: QC 165.
[Map projection in GA]
Maples: QK 495.A17.
Maps, astronomical: QB 65.
 Moon: QB 595.
Marine biology: QH 91-95; QL 121-138.
Mars: QB 376, 641.
 Observations for solar parallax:
 QB 516.
 Satellites: QB 403.
Marsupials: QL 737.M3.
 Fossil: QE 882.M3.
Masses, geometry of: QA 839.
Mastodon: QE 882.U7.
Mathematical crystallography: QD 911.
Mathematical formulae: QA 41.
Mathematical instruments: QA 71-85.
Mathematical physics: QA 401, QC 20.
 Elasticity: QA 931.
 Electricity and magnetism: QC 518,
 631, 661.
 Gases, Kinetic theory of: QC 175.
 Heat: QC 254.
 Heat conduction: QC 321.
 Hydrodynamics: QA 911.
 Optics: QC 355, 403, 670.
 Potential: QA 825.
 Sound: QC 223.
 Thermodynamics: QC 311.
Mathematical recreations: QA 95.
Mathematical tables: QA 47-59.
Mathematics: QA.
Matrices: QA 263.
Matter, properties and constitution of:
 QC 171-219.
Maxima and minima
 Calculus: QA 306.
 Geometry: QA 563.
Mean density of the earth: QB 341.
Measurement of angles, crystallography:
 QD 915.
Measurement of area: QA 81.
Measurement of length: QC 102.
Measurement of volume: QC 104.
Mechanical equivalent of heat: QC 312.
Mechanics
 Analytic: QA 802-935.
 Celestial: QB 351-421.
 Experimental: QC 122-168.
Medical botany (general): QK 99.
Medieval science: Q 153.
 Alchemy: QD 13, 25.
 Astronomy: QB 23-26.
 Mathematics: QA 23, 32.
Medulla oblongata: QM 455; QP 377.
Meduse: QL 375-379.
Melting points: QD 518.
Memory: QP 398.
Menageries: QL 73.
Mendel's law: QH 421-431.
Meninges: QM 469.
Menstruation: QP 265.
Mensuration: QA 465.
Mental fatigue: QP 421.
Mercury
 Chemistry: QD 181.H6.
 Pharmacology: QP 913.H6.
Mercury barometer: QC 886.
Mercury thermometer: QC 272.
Mercury (planet): QB 371, 611.
 Transit: QB 515.
Meridian, prime: QB 224.
Meridian determination: QB 207.
Meridian instruments: QB 101.
Mesentery: QL 864; QM 367.
Mesozoic
 Paleobotany: QE 921-924.
 Paleontology: QE 731-734.
 Stratigraphic geology: QE 675-688.
Metabolism, biology: QH 521, 631.
 Animal: QP 171.
 Plant: QK 881-898.
Metallurgic analysis: QD 133.
Metals, chemistry: QD 171-172.
Metamorphic rocks: QE 475.

INDEX

- Metamorphism: QE 608.
- Metamorphosis: QL 981.
- Meteorites
 - Astronomical works: QB 755.
 - Mineralogical works: QE 395.
- Meteoritic hypothesis: QB 981.
- Meteorological instruments: QC 876.
- Meteorological observations: QC 983-993.
 - Instructions to observers: QC 871.
- Meteorological observatories: QC 875.
- Meteorological optics: QC 975-976.
- Meteorology: QC 851-999.
- Meteors: QB 741-755.
- Method of least squares: QA 275.
- Methodology of science: Q 175.
- Metric system: QC 91-94.
- Metrology: QC 81-114.
- Mice: QL 737.R6.
- Microbes: QR 56.
- Micro-chemistry: QH 221.
- Micrometers: QB 113.
- Micro-organisms: QR.
- Microphotography: QH 251.
- Microscopy: QH 201-277.
 - Animal histology: QM 551-555.
 - Petrography: QE 434.
 - Vegetable histology: QK 673.
- Microtome: QH 233.
- Migration of animals: QL 754.
- Migration of ions: QD 561.
- Milk
 - Bacteriology: QR 121.
 - Secretion and composition: QP 246.
- Milky way: QB 819.
- Mimicry: QH 546.
- Mineral veins: QE 611.
- Mineralogy: QE 351-399.
- Minimal surfaces: QA 644.
- Minor planets: QB 377-378, 651.
 - Observations for solar parallax: QB 516.
- Miocene
 - Paleobotany: QE 929.
 - Paleontology: QE 739.
 - Stratigraphic geology: QE 694.
- Mirage: QC 976.M6.
- Mirrors, optics: QC 385.
- Mocking-birds: QL 696.P2.
- Modular functions: QA 343.
- Molecular dimensions: QC 179.
- Molecular theory, chemistry: QD 461.
- Molecular weight determination: QD 545.
- Mollusca: QL 401-432.
 - Fossil: QE 801-813.
- Molluscoidea: QL 395-399.
 - Fossil: QE 795-799.
- Moments of inertia: QA 839.
- Monkeys: QL 737.P9, QL 795.M7.
 - Fossil: QL 882.P7.
- Monotremata: QL 737.M7.
 - Fossil: QE 882.M6.
- Monsoons: QC 939.M7.
- Monsters: QM 699.
- Moon: QB 581-595.
 - Theory: QB 391-399.
- Moon, eclipses of: QB 579.
- Moraines: QE 578.
- Morphology: QH 351.
 - Animal: QL 801-991.
 - Plant: QK 641-662.
- Mosquitoes: QL 536.
- Mosses: QK 535-549.
 - Fossil: QE 959.
- Moths: QL 541-562.
- Motion: QA 841.
- Moulds (fungi): QK 621; QR 151.
- Mountain and valley winds: QC 939.M8.
- Mountain building: QE 621.
- Mounting of specimens, microscopy: QH 239.
- Mounting of telescopes: QB 97.
- Mouth: QL 857; QM 306.
 - Digestion: QP 146.
 - Mycology: QR 47.
- Movement sense: QP 454.
- Movements, biology: QH 511.
 - Animal: QP 301-311.
 - Plant: QK 771-791.
- Multiplication: QA 111, 115.
 - Machines: QA 75.
 - Slide rule: QA 73.
 - Tables: QA 49.
- Multituberculata: QL 737.M9.
 - Fossil: QE 882.M8.
- Mural circle: QB 101.
- Muscle
 - Histology: QM 571.
 - Physiology: QP 321.
- Muscles
 - Anatomy: QL 831; QM 151-165.
 - Movements: QP 301-303.
- Museums (*see also* AM. Serial publications, except administrative reports, classified with Societies)
 - Anatomical: QL 814, QM 51.
 - Botanical: QK 79.
 - Geological: QE 51.
 - Mineralogical: QE 386.

INDEX

Museums—Continued.

- Natural history: QH 70-71.
- Paleontological: QE 716, 908.
- Zoological: QL 71.
- Mushrooms: QK 617.
- [Musical acoustics in ML]
- Mutation theory, biology: QH 366, 401.
- Mutual induction: QC 638.
- Mycetozoa: QK 635.
- Mycology: QK 601-635, QR.
- Myology (*see* Muscles).
- Myriapoda: QL 449.
 - Fossil: QE 828-829.
- Myrmecophilism: QK 924.
- Myths, astronomical: QB 55.
- Myxobacteriaceae: QK 633.
- Myxomycetes: QK 635.
- Myxostomaria: QL 391.M9.

N

- N-rays: QC 485.
- Nails: QL 942, QM 488.
- Naphthalene: QD 391.
- National flowers: QK 85.
- Natural history: QH.
- Natural history museums: QH 70-71.
- Natural philosophy: QC.
- Natural selection: QH 365-367.
- Natural system, botany: QK 93-94.
- Naturalists' voyage: QH 11.
- Nature study: QH 51-53.
- Nautical almanacs: QB 8.
- [Nautical astronomy in VK]
- Nebulae: QB 851-855.
 - Spectra: QB 891.
- Nebular hypothesis: QB 981.
- Neck, anatomy: QM 155, 535.
- Neocene: QE 691-693.
- Nemathelminthes: QL 391.N2.
- Nematoda: QL 391.N4.
- Nemertinea: QL 391.N6.
- Nepheloscopes: QC 923.
- Nephridia: QL 872.
- Neptune: QB 388, 691.
 - Satellites: QB 406.
- Nerve
 - Histology: QM 575.
 - Physiology: QP 331.
- Nervous system
 - Comparative anatomy: QL 921-939.
 - Human anatomy: QM 451-471.
 - Physiology: QP 351-499.

- Nests: QL 675.
- Neurology (*see* Nervous system)
- Neuron: QP 363.
- Neuroptera: QL 511-514.
- Newton's Principia: QA 803.
- Newton's rings: QC 411.
- Newts: QL 668.C 2.
- Night-hawks: QL 696.C 2.
- Nitro-compounds: QD 305, 341.
- Nitroso-compounds: QD 305, 341.
- Non-Euclidean geometry: QA 685.
- Non-metals: QD 161.
- Northern lights: QC 971-972.
- Northerns: QC 939.N8.
- Nose
 - Comparative anatomy: QL 947.
 - Human anatomy: QM 505.
 - Physiology: QP 458.
- Nucleation of the atmosphere: QC 918.
- Nucleus, cell: QH 595.
- Numbers, complex: QA 255.
- Numbers, prime: QA 51, 246.
- Numbers, theory of: QA 241-246.
- Numeration: QA 141.
- Numerical equations: QA 218.
- Numerical functions: QA 246.
- Nutation
 - Astronomy: QB 165.
 - Botany: QK 773.
- Nutrition
 - Animal: QP 141-171.
 - Plant: QK 867-898.
- Nyctitropism: QK 791.

O

- Oak: QK 495.Q4.
- Objectives
 - Microscope: QH 211.
 - Telescope: QB 88.
- Oblique projection: QA 507.
- Observations, combination of: QA 275-277.
- Observatories
 - Astronomical: QB 81-84.
 - Magnetic: QC 818.
 - Meteorological: QC 875.
 - Seismological: QE 541.
- Ocultations, calculation of: QB 175.
- Ocean, meteorology: QC 994.
- Ocean, natural history: QH 91-95; QL 121-138.
 - [Oceanography in GC]

INDEX

Ecology: QH 541-549.
 Animal: QL 751-775.
 Plant: QK 901-929.
 Esophagus: QL 861; QM 331.
 Digestion: QP 146.
 Ohm's law: QC 607.
 Old age: QP 86.
 Olfactory organs
 Anatomy: QL 947; QM 505.
 Physiology: QP 458.
 Oligocene
 Paleobotany: QE 928.
 Paleontology: QE 738.
 Stratigraphic geology: QE 693.
 Oligochaeta: QL 391.O4.
 Omentum: QL 864; QM 367.
 Oogenesis: QL 965.
 Oolites: QE 683.
 Oology: QL 675.
 Operations, calculus of: QA 253.
 Optical illusions: QP 495.
 Optical instruments: QC 371-375.
 Optical measurements: QC 367.
 Optical properties of crystals: QD 941.
 Optics: QC 353-495.
 Geometrical: QC 381-385.
 Meteorological: QC 975-976.
 Physiological: QP 475-495.
 Orbits, theoretical astronomy: QB 355-357.
 Orchids: QK 495.O 64.
 Ordovician (Lower Silurian): QE 662.
 [Ore deposits in TN]
 Organic analysis: QD 271.
 Organic chemistry: QD 251-449.
 Organography, botany: QK 641-662.
 Organometallic compounds: QD 411-412.
 Ornithology: QL 671-699.
 Ornithosauria: QE 862.O 7
 Orogeny: QE 621.
 Orthogonal surfaces: QA 649.
 Orthoptera: QL 506-509.
 Osmosis, cells: QH 615.
 Osmotic pressure, solutions: QD 543.
 Osteology: QL 821.
 Ostrich: QL 696.S 9 [Cf. SF 511]
 Outdoor books: QH 81.
 Ovaries: QL 881; QM 421.
 Oviducts: QL 881.
 Ovulation: QP 261.
 Owls: QL 696. S 8.
 Oyster, zoology: QL 430.
 Ozone: QD 181. O 1.
 Physiological effect: QP 913.O 1.

843-05—11

P

Pain: QP 401.
 Paleontology: QE 701-995.
 Paleobotany: QE 901-995.
 Paleozoology: QE 761-899.
 Paleozoic
 Paleobotany: QE 915-920.
 Paleontology: QE 725-730.
 Stratigraphic geology: QE 654-674.
 Palms: QK 495.P 17.
 Pancreas: QL 866; QM 353.
 Pancreatic juice: QP 195.
 Parabola: QA 485, 559.
 Paraboloid: QA 561.
 Paraffins: QD 305.
 Parallax
 Correction for: QB 159.
 Determination of moon's distance:
 QB 583.
 Determination of sun's distance:
 QB 508-518.
 Parallax, annual
 Correction for: QB 167.
 Determination of star's distance:
 QB 813.
 Parallel perspective: QA 519.
 Parallels, geometry: QA 681-685.
 Parasites
 Animal: QL 757.
 Plant: QK 918.
 Parrots: QL 696.P 7.
 Parthenogenesis: QH 487.
 Partial differential equations: QA 374-377.
 Particle, dynamics of a: QA 851.
 Partitions: QA 165.
 Partridges: QL 696.G 2.
 [Pathology in RB]
 [Pathology, vegetable in SB]
 Pebbles: QE 41, 365.
 Pedagogy, science: Q 181.
 Astronomy: QB 61.
 Biology: QH 315.
 Botany: QK 51.
 Chemistry: QD 40.
 Geology: QE 40, 366, 715.
 Mathematics: QA 11, 135-137, 461.
 Meteorology: QC 869.
 Nature study: QH 51-53.
 Physics: QC 30, 530.
 Physiology: QP 41.
 Zoology: QL 51, 812.
 Pelecypoda: QL 430.6-7.
 Fossil: QE 811-812.
 Pelicans: QL 696.S 6.

INDEX

- Pelvis: QM 115.
- Pendulum
 - Apparatus: QB 331.
 - Dynamics: QA 862.P 4.
 - Observations: QB 335.
- Penis: QL 878; QM 416; QP 257.
- Pericardium: QL 838; QM 181.
- Perineum: QM 431.
- Periodic law, chemistry: QD 467.
- Periodicals: Q 1-4.
 - Anatomy, comparative: QL 801.
 - Anatomy, human: QM 1.
 - Astronomy: QB 1.
 - Bacteriology: QR 1.
 - Biology: QH 301.
 - Botany: QK 1.
 - Chemistry: QD 1, 71.
 - Conchology: QL 401.
 - Electricity: QC 501.
 - Entomology: QL 461, 541, 571.
 - Geology: QE 1.
 - Mathematics: QA 1.
 - Meteorology: QC 851.
 - Microscopy: QH 201.
 - Mineralogy: QE 351.
 - Natural history: QH 1-7.
 - Ornithology: QL 671.
 - Paleobotany: QE 901.
 - Paleontology: QE 701.
 - Physics: QC 1.
 - Physiology: QP 1, 501.
 - Psychology, experimental: QP 351.
 - Terrestrial magnetism: QC 811.
 - Weights and measures: QC 81.
 - Zoology: QL 1.
- Peripatus: QL 448.
- Peritoneum: QL 864; QM 367.
- Permian
 - Paleobotany: QE 920.
 - Paleontology: QE 730.
 - Stratigraphic geology: QE 674.
- Permutations: QA 165.
- Personal equation: QB 153.
- Perspective: QA 515.
- Perspiration: QP 221.
- Perturbation: QB 361-362.
- Petrels: QL 696.T 8.
- Petrology: QE 421-499.
- Pfaffians: QA 381.
- Phanerogams: QK 110-495.
- Pharmacology: QP 905-981.
- Pharynx: QL 861; QM 331.
- Phases of moon: QB 588.
- Pheasants: QL 696.G 2.
- Phenanthrene: QD 395.
- Phenology: QH 544.
- Phenols: QD 341.
- Philosopher's stone: QD 13, 25.
- Philosophy of science: Q 175-177; QA 9, 802; QC 73.
- Phlogiston: QD 14, 27.
- Phonograph: QC 245.
- Phonology: QC 246.
- Phoronis: QL 391.P 5.
- Phosphorescence: QC 478.
 - of living cells: QH 641.
- Photochemistry: QD 601.
- [Photography in TR]
- Photography, astronomical: QB 121.
- Photography of natural objects: QH 245.
- Photometry: QC 391.
 - Astronomical: QB 135.
 - Stellar: QB 815.
- Photomicrography: QH 251.
- Photosynthesis, botany: QK 882.
- Phycomycetes: QK 621.
- Phylogeny (mainly under Paleontology)
 - works relating to plant morphology: QK 667.
- Physical chemistry: QD 451-601.
- [Physical geography in GB]
- Physical laboratories: QC 51.
- Physical measurements, theory: QC 39.
- Physics: QC
 - Astronomical: QB 461.
 - Cosmical: QC 806.
 - Terrestrial: QC 806; QE 501.
- Physiological acoustics: QP 461-469.
- Physiological chemistry: QP 501-801.
- Physiological laboratories: QP 51-53.
- Physiological optics: QP 475-495.
- Physiological psychology: QP 351-499.
- Physiology (general): QH 501-531.
 - Animal (and human): QP
 - Plant: QK 711-899.
- Piezo-electricity: QC 595.
- Pigeons: QL 696.C6 [Cf. SF 465]
- Pigment: QM 559.
- Pineal gland
 - Anatomy: QL 868; QM 37.
 - Physiology: QP 187.
- Pines: QK 495.C 75
- Pinnipedia: QL 737.P 6
 - Fossil: QE 882.C4
- Piperidine: QD 401.
- Pituitary body
 - Anatomy: QL 868; QM 371.
 - Physiology: QP 187.

INDEX

- Placenta: QL 973.
 Plagiostomi: QL 638.9.
 Plane geometry: QA 455.
 Plane trigonometry: QA 533.
 Planetary theory: QB 361-388.
 Planets: QB 601-691.
 Planets, intra-mercurial: QB 607.
 Planets, minor: QB 377-378, 651.
 Observations for solar parallax:
 QB 516.
 Planimeter: QA 81.
 Planisphere: QB 65.
 Plankton
 Freshwater: QL 143.
 Marine: QL 123.
 Plant analysis blanks: QK 57.
 Plant diseases, bacteria of: QR 351.
 Plant geography: QK 101.
 Plant histology: QK 671-705.
 Plant morphology: QK 641-662.
 Plant physiology: QK 711-899.
 Plant lore: QK 83.
 Plant names: QK 11-13.
 Plants and animals, differences: QH
 347.
 Platyhelminthes: QL 391.P7.
 Pleistocene: QE 696.
 Plesiosauria: QE 862.P4.
 Pleura: QL 849; QM 261.
 Pliocene
 Paleobotany: QE 930.
 Paleontology: QE 740.
 Stratigraphic geology: QE 695.
 Plovers: QL 696.L7.
 Plumb-line deflections: QB 338.
 Plurality of worlds: QB 54.
 Plutonic rocks: QE 451.
 Pneumatics: QC 161-168.
 Pneumonia, bacteriology: QR 201.P7.
 Polarization, light: QC 441-445.
 Sky: QC 975.P 7.
 Polarization, electric batteries: QC 603,
 618; QD 561.
 Polarization apparatus, microscope:
 QH 217.
 Pole, astronomy: QB 169.
 Pollen and pollen tube
 Anatomy: QK 697.
 Morphology: QK 658.
 Pollination adaptations: QK 926.
 Polychaeta: QL 391.P9.
 Polyhedra, theory of: QA 611.
 Polyzoa: QL 395-399.
 Fossil: QE 798-799.
 Porifera: QL 371-374.
 Fossil: QE 775.
 Potential, theory of: QA 825.
 Precession: QB 165.
 Precious stones: QE 392-394.
 Pre-Linnæan works
 Botany: QK 41.
 Natural history: QH 41.
 Zoology: QL 41.
 Preservation of specimens: QH 61; QK 61;
 QL 67.
 Pressure, atmospheric: QC 885-896.
 Pressure, measurement of: QC 165.
 Pressure of blood: QP 101.
 Primary batteries: QC 603.
 Primates: QL 737.P9.
 Fossil: QE 882.P7.
 Prime factors: QA 51.
 Prime meridians: QB 224.
 Prime numbers, distribution of: QA
 246.
 Probabilities: QA 273.
 Problem of three bodies: QB 362, 401.
 Prochordata: QL 611.
 Projection: QA 501-519.
 Projective geometry: QA 471, 554.
 Prominences, sun: QB 528.
 Proper motion
 Solar system: QB 507.
 Star: QB 811.
 Properties of matter: QC 171-199.
 Protective mechanisms, biology: QH
 546.
 Proteids: QD 431; QP 551.
 Protoplasm: QH 591.
 Prototracheata: QL 448.
 Protozoa: QL 366-369.
 Fossil: QE 771.
 Pathogenic: QP 251.
 Pseudomorphs: QE 399.
 Psychology, experimental: QP 351-499.
 Psychology of animals: QL 785.
 Psychrometers: QC 916.
 Pteridophyta: QK 521-532.
 Fossil: QE 960-971.
 Ptomaines: QP 801.P 7.
 Puberty: QP 84.
 Pulse: QP 101.
 Purin: QP 801.P 8.
 Pyramid inches: QC 99.
 Pyrazole: QD 401.
 Pyridine: QD 401.
 Pyro-electricity: QC 595.
 Pyrometry: QC 277.

INDEX

Q

Quadratic equations: QA 152-161.
 Quadratic forms: QA 243.
 Quadratic residues: QA 242.
 Quadrature of curves: QA 626.
 Quadrics: QA 561.
 Quails: QL 696.G2.
 Qualitative analysis: QD 81-95.
 Quantics, theory of: QA 201.
 Quantitative analysis: QD 101-142.
 Quartz: QE 391.
 Optical properties: QD 941.
 Quaternary
 Paleobotany: QE 931.
 Paleontology: QE 741.
 Stratigraphic geology: QE 696-699.
 Quaternions: QA 257.
 Quicksilver (*see* Mercury)

R

Rabbit: QL 737.R6.
 Radiants, meteors: QB 743.
 Radiation, emission of: QC 475.
 Heat: QC 331.
 Radiation, solar: QC 911.
 Radiation, terrestrial: QC 911.
 Radioactivity: QC 721.
 Radiolaria: QL 368.R2.
 Fossil: QE 773.
 Radiometer: QC 176.
 Rain and rainfall: QC 925.
 Rain band spectrum: QC 976.R 1.
 Rain gauges: QC 926.
 Rain making: QC 929.R 1.
 Rainbows: QC 976.R 2.
 Raphides: QK 923.
 Rats: QL 737.R 6, QL 795.R 2.
 Rattlesnake: QL 696.06.
 Reaction time: QP 363.
 Ready reckoners: QA 111.
 Reagents, analytic chemistry: QD 77.
 Recent strata: QE 699.
 Reciprocals, tables of: QA 49.
 Recreations, scientific: Q 164.
 Mathematical: QA 95.
 Rectification of curves: QA 626.
 Rectum: QM 345.
 Recurring series: QA 295.
 Reduction of observations
 Astronomy: QB 151-168.
 Meteorology: QC 874.
 Reflecting telescope: QB 88.

Reflection, light: QC 385, 425.
 Reflex actions: QP 372.
 Refraction, light: QC 385, 425.
 Astronomical: QB 155-156.
 Terrestrial: QB 321.
 Refractive indices: QC 387.
 Regeneration, biology: QH 499.
 Regional anatomy: QM 531-549.
 Reproduction, biology: QH 471-489.
 Animals: QP 251-273.
 Plants: QK 825-827, 925-929.
 Reproductive organs, anatomy
 Female: QL 881; QM 421.
 Male: QL 878; QM 416.
 Reptiles: QL 641-669.
 Fossil: QE 861-862.
 Resins: QD 419.
 Resistance, electrical: QC 611.
 Resisting medium, solar system: QB 505.
 Resonance: QC 244.
 Respiration
 Animal: QP 121.
 Plant: QK 891.
 Respiratory organs, anatomy: QL 845-855 QM 251-261.
 Retina: QP 479.
 Rhaetic formation: QE 679.
 Rhinoceros: QL 737.U5.
 Rhizopoda: QL 368.R 4.
 Rhododendron: QK 495.R47.
 Rhythm: QP 465.
 Riemann surfaces: QA 333.
 Right- and left-handedness: QP 385.
 Rigid bodies
 Dynamics: QA 861.
 Statics: QA 831.
 Rigor of muscle: QP 321.
 Rivers, temperature of: QC 909.
 Robins: QL 696.P2.
 Rocks: QE 421-499.
 Igneous: QE 461.
 Metamorphic: QE 475.
 Sedimentary: QE 471.
 Rodentia: QL 737.R6.
 Fossil: QE 882.R6.
 Roman astronomy: QB 22.
 Röntgen radiation: QC 481.
 Root, botany
 Anatomy: QK 684.
 Morphology: QK 644.
 Roses: QK 495.R78.
 Rotating masses of gravitating fluid:
 QB 410.

INDEX

Rotation of earth: QB 633.
 Rotifera: QL 391.R8.
 Roulettes: QA 623.
 Ruminants: QL 737.U 5.

S

[Saccharimetry in TP]
 Saccharomycetes: QR 151.
 St. Elmo's fire: QC 969.
 Salamanders: QL 668.C2.
 Salivary glands
 Anatomy: QL 865; QM 325.
 Physiology: QP 191.
 Salmon: QL 638.S2.
 Saprophytes: QK 918.
 Satellites: QB 401-406.
 Saturn: QB 384, 671.
 Satellites and ring system: QB 405.
 Scale-insects: QL 523.
 Scaphopoda: QL 430.8.
 Fossil: QE 813.
 Schists: QE 475.
 Science (general): Q.
 Sciences, classification of: Q 177.
 Scientific apparatus and instruments:
 Q 184-185.
 Scientific expeditions: Q 115.
 Handbooks: Q 116.
 Scientific recreations: Q 164.
 Scorpions: QL 458.
 Screws, theory of: QA 841.
 Sea anemones: QL 377.C 7.
 Sea cucumbers: QL 384.H 7.
 Sea lilies: QL 384.C 8.
 Sea temperature: QC 908.
 Sea-urchins: QL 384.E 2.
 Seaweeds: QK 565-580.
 Seals, zoology: QL 737.P 6.
 Seasons, astronomical geography: QB 631.
 Seasonal habits of animals: QL 753-755.
 Sebaceous glands: QL 943; QM 491.
 Secretion, physiology: QP 190-246.
 Secretions, botany: QK 923.
 Secular variation, terrestrial magnetism:
 QC 828.
 Sedimentary rocks: QE 471.
 Sedimentation: QE 581.
 Seed
 Anatomy: QK 701.
 Morphology: QK 661.
 Seed dissemination: QK 929.

Seed lists, botanic gardens: QK 73.
 Seismology: QE 531-541.
 Selaginella: QE 971.
 Self-induction: QC 638.
 Semen: QP 255.
 Sense organs
 Comparative anatomy: QL 945-949.
 Human anatomy: QM 501-511.
 Physiology and psychology: QP 431-499.
 Sensitive plants: QK 791.
 Series, algebra: QA 295.
 Series, Fourier's: QA 404.
 Series, Taylor's: QA 306.
 Serpents: QL 666.O 6.
 Serum, blood: QP 91.
 Pharmacology: QP 951.
 Sex, biology: QH 471, 481.
 Sex in plants: QK 827.
 Sex organs
 Animals: QL 876-881.
 Man: QM 416-421.
 Plants: QK 658-659, 697-698.
 [Sextant in VK]
 Sexual relations, zoology: QL 761.
 Sexual selection: QH 365-367, 371.
 Shades and shadows: QA 519.
 Sharks: QL 638.9.
 Shells: QL 401-432.
 Fossil: QE 801-813.
 Ship's magnetism: QC 849.
 Shoot, botany: QK 645, 685.
 Shooting stars: QB 741-755.
 Shrubs: QK 475-494.
 Sidereal clock: QB 107.
 Sidereal time: QB 211.
 Siderostat: QB 97.
 Sight: QP 475.
 Sigillaria: QE 971.
 Silurian
 Paleobotany: QE 917.
 Paleontology: QE 727.
 Stratigraphic geology: QE 661-663.
 Simultaneous equations: QA 195.
 Sirenia: QL 737.S 6.
 Fossil: QE 882.S 6.
 Sirocco: QC 939.
 Skeleton
 Animal: QL 821.
 Human: QM 101-117.
 Skew curves: QA 581.
 Skin: QL 941; QM 481-484.
 Skin glands: QL 943; QM 491; QP 221.
 Skull: QM 105.

INDEX

- Sky, coloration of: QC 976.C 6.
 Sky, polarization of: QC 976.P 7.
 Sleep: QP 425.
 of plants: QK 791.
 Slide rule: QA 73.
 Slime moulds: QK 635.
 Smell: QP 458.
 Snails: QL 430.5.H 4.
 Snakes: QL 666.O 6.
 Venom: QP 235, 941.
 Snipes: QL 696.L 7.
 Snow: QC 929.S 7.
 Social relations of animals: QL 775.
 Societies: Q 11-99.
 Serial publications of societies devoted to a special subject are classified with the periodicals in that science, *see* Periodicals. This form division includes publications of congresses and learned institutions as well as societies.
 Soil bacteriology: QR 111.
 Solar compass: QB 105.
 Solar corona: QB 529.
 Solar eclipses: QB 541-551.
 Solar parallax: QB 508-518.
 Solar prominences: QB 528.
 Solar radiation: QB 531; QC 911.
 Solar spectrum: QC 455.
 Solar system: QB 501-518.
 Solid geometry: QA 457.
 Solidification: QC 303.
 Solids
 Elastic properties: QC 191.
 Expansion: QC 282.
 Specific heats: QC 295.
 Thermal conductivity: QC 323.
 Solubility: QD 543.
 Dictionaries: QD 66.
 Solution, theory of: QD 541.
 Sound: QC 220-249.
 Localization: QP 469.
 Space of more than three dimensions: QA 691-699.
 Space perception: QP 443, 491.
 Sparrows: QL 696.P 2.
 Species, origin of: QH 361-371.
 Specific gravity: QC 111-114.
 Specific heat: QC 291-297.
 Specific inductive capacity: QC 585.
 Specimens, collecting and preservation: QH 61-68; QK 61; QL 61-67.
 Spectrometer: QC 373.
 Spectroscopes: QB 873; QC 465.
 Spectroscopy: QC 451-467.
 Astronomical: QB 465.
 Solar: QB 551.
 Stellar: QB 871-903.
 Spectrum analysis (chemical): QD 95.
 Spermatogenesis: QL 966.
 Spermatophyta: QK 495.
 Sphere, geometry: QA 457, 491.
 Spherical aberration: QC 383-385.
 Spherical astronomy: QB 145.
 Spherical harmonics: QA 406.
 [Spherical projection in GA]
 Spherical trigonometry: QA 535.
 Spiders: QL 451-459.
 Spinal cord
 Comparative anatomy: QL 933-937.
 Human anatomy: QM 465.
 Physiology: QP 371-374.
 Spine, anatomy: QM 111.
 Spines, botany: QK 923.
 Spirals, geometry: QA 567.
 Spleen
 Anatomy: QL 868; QM 371.
 Physiology: QP 187.
 Sponges: QL 371-374.
 Fossil: QE 775.
 Spontaneous generation: QH 325.
 Square roots: QA 119.
 Tables: QA 49.
 Squares, magic: QA 165.
 Squares, tables of: QA 49.
 Squaring the circle: QA 467.
 Squirrels: QL 737.R 6.
 Stability of systems: QA 871.
 Staining, microscopy: QH 237.
 Stamens: QK 658, 667.
 Standard time: QB 223.
 Standards and standardizing bureaus: QC 100.
 Standards, electrical: QC 537.
 Standards of length: QC 101.
 Standards of mass: QC 105.
 Starch: QD 321; QK 887.
 Star-fishes: QL 384.A 8.
 Stars: QB 801.
 Atlases: QB 65.
 Catalogues and observations: QB 6, 815, 821, 835, 881.
 Clusters: QB 851-853.
 Distribution: QB 819.
 Magnitudes: QB 815.
 Names: QB 802.
 Parallax: QB 813.
 Popular guides: QB 63.

INDEX

- Stars—Continued.
 Reduction (from mean to apparent place): QB 168.
 Spectra: QB 871-903.
 Stars, double: QB 821-829.
 Spectra: QB 903.
 Theory: QB 421.
 Stars, new: QB 841.
 Spectra: QB 895.
 Stars, variable: QB 835-841.
 Spectra: QB 895.
 Static electricity: QC 571-595.
 Statics: QA 821-835.
 of fluids: QA 905.
 Statistical mechanics: QC 175.
 Statistical methods, variation: QH 405.
 Stellar photometry: QB 135.
 Stellar statistics: QB 819.
 Stem, botany
 Anatomy: QK 686.
 Morphology: QK 646.
 Stereochemistry: QD 481.
 Stereopticon: Q 186.
 Stereoscope: QC 373.S 8.
 [Stereotomy in TH]
 Stigmas, flowers: QK 659, 698.
 Stimulants, popular hygiene: QP 36-37.
 Stipules: QK 650.
 Stomach: QL 862; QM 341.
 Digestion: QP 151.
 Stomata, botany: QK 689, 873.
 Storage batteries: QC 605.
 Storms: QC 941-958.
 Strains and stresses: QA 931-935.
 Stratification: QE 602.
 Stratigraphic geology: QE 651-699.
 [Strength of materials in TA]
 Strings
 Equilibrium: QA 835.
 Vibrations: QC 235.
 Structural botany: QK 641-705.
 Structural geology: QE 601-611.
 Styles, flowers: QK 659, 698.
 Substitution-groups: QA 171.
 Substitutions, linear: QA 190.
 Sugars: QD 321. [Cf. TP]
 Sun: QB 521-539.
 Eclipses: QB 541-544.
 Parallax: QB 508-518.
 Spectroscopy: QB 551.
 Tables, apparent motion: QB 374.
 Sundials: QB 215.
 Sunshine: QC 911-912.
 Sun-spots: QB 525.
 Relation to meteorological phenomena: QC 883.
 Relation to terrestrial magnetism: QC 836.
 Suprarenal
 Anatomy: QL 868; QM 371.
 Physiology: QP 187.
 Surface tension: QC 183.
 Surfaces
 Analytic geometry: QA 571-573.
 Differential geometry: QA 641-649.
 Infinitesimal geometry: QA 631-638.
 Models: QA 71.
 Surfaces, deformation of: QA 648.
 Surfaces, isothermic: QA 649.
 Surfaces, minimal: QA 644.
 Surfaces, orthogonal: QA 649.
 Surfaces, representation of: QA 646.
 Surfaces, transcendental: QA 638.
 Surgical anatomy: QM 531-549.
 Surveys
 Geodetic: QB 296.
 Geological: QE 61-349.
 Natural history: QH 102-198.
 Swallows: QL 696.P 2.
 Swans: QL 696.A 5.
 Sweat: QP 221.
 Swimming-bladders, fishes: QL 855.
 Sylvas: QK 481-493.
 Symbiosis: QH 548; QK 918.
 Symmetric functions: QA 212.
 Sympathetic nervous system
 Anatomy: QL 939; QM 471.
 Physiology: QP 368.
 Systematic botany: QK 97.
 Systematic zoology: QL 352.
 Systems of curves and surfaces: QA 607.
- T
- Tables
 Astronomy: QB 11-12, 151-168, 228, 369-388, 399.
 Chemistry: QD 65.
 Mathematics: QA 47-59, 310.
 Meteorology: QC 873, 887, 917.
 Metric system: QC 94.
 Physics: QC 61, 114, 369.
 Tangential transformations: QA 385.
 Tannin in plants: QK 898.
 Taste: QP 456.
 Taxidermy: QL 63.
 Taylor's series: QA 306.

INDEX

- Tears, secretion: QP 231.
- Technical analysis: QD 131-142.
- Teeth: QL 858; QM 311. [Cf. RK, Dentistry]
- Telephony: QH 425-431.
- Teleostei: QL 638.
 - Fossil: QE 852.T 2.
- Telescopes: QB 88.
- Temperature: QC 271.
 - Atmospheric: QC 901-906.
 - Ground: QC 907.
 - Human and animal: QP 135.
 - Rivers: QC 909.
 - Sea: QC 908.
- Temperature sense: QP 451.
- Tendons: QM 141.
- Tendrils: QK 773.
- Teratology
 - Animal: QL 991.
 - Human: QM 691.
 - Plant: QK 664.
- Terpenes: QD 416.
- Terrestrial magnetism: QC 811-849.
- Terrestrial refraction: QB 321.
- Tertiary
 - Paleobotany: QE 926-930.
 - Paleontology: QE 736-740.
 - Stratigraphic geology: QE 691-695.
- Test papers, analytic chemistry: QD 77.
- Testes: QL 878; QM 416; QP 255.
- Thallophyta: QK 565-635.
- Thermodynamics: QC 311-319.
 - (See also Chemistry, Physical and theoretical)
- Thermochemistry: QD 511.
- Thermoelectricity: QC 621.
- Thermometers and thermometry: QC 271-278.
- Thermopile: QC 338.
- Theta functions: QA 345.
- Thiophene: QD 403.
- Thirst: QP 141.
- Thomson effect: QC 621.
- Thorax, regional anatomy: QM 541.
- Thorium compounds, chemistry: QD 181.T 5.
 - Radioactivity: QC 721.
- Thorns: QK 662, 703.
- Thrushes: QL 696.P 2.
- Thunderstorms: QC 968.
- Thymus
 - Anatomy: QL 868; QM 371.
 - Physiology: QP 187.
- Thyroid gland
 - Anatomy: QL 868; QM 371.
 - Physiology: QP 187.
- Thysanura: QL 503.T6.
- Tides: QB 415-419.
- Time: QB 211-223.
- Time signals: QB 221.
- Toads: QL 668.E 2.
- Toadstools: QK 617.
- Tone: QP 465.
- Tongue: QL 946; QM 503.
- Top, dynamics: QA 862.T7.
- Topographical anatomy: QM 531-549.
- Topology: QA 611.
- Tornadoes: QC 955.
- Toroidal harmonics: QA 411.
- Torsion
 - Mechanics: QA 935; QC 191.
 - Plant physiology: QK 773.
- Tortoises: QL 666.C5.
- Touch: QP 451.
- Toxins
 - Physiological chemistry: QP 631.
 - Pharmacology: QP 941.
- Toys, scientific: Q 164.
- Tracheæ: QL 847.
- Trade winds: QC 939.T7.
- Transcendental curves: QA 628.
- Transcendental surfaces: QA 638.
- Transformations, mathematics: QA 601-608.
 - Infinitesimal: QA 385.
- [Transformers (electricity) in TK]
- Transit instrument: QB 101-105.
- Transit of Mercury: QB 515.
- Transit of Venus: QB 509-513.
- Transits, calculation of: QB 175.
- Transmutation of metals: QD 13, 25.
- Transpiration: QK 873.
- Trees: QK 475-494.
- Trematoda: QL 391.T7.
- Triangle: QA 482.
- Triangulation: QB 311-321.
- Triassic
 - Paleobotany: QE 922.
 - Paleontology: QE 732.
 - Stratigraphic geology: QE 676-679.
- Trichomes: QK 662, 703.
- Trichoptera: QL 516-519.
- Trigonometry: QA 531.
 - Plane: QA 533.
 - Spherical: QA 535.
 - Tables: QA 55.
- Trilinear coordinates: QA 556.

INDEX

Trilobites: QE 821.
 Trisection of any angle: QA 468.
 Tropics, natural history: QH 84.5;
 QL 109.
 Tuberculosis, bacteriology: QR 201.T6.
 Tunicata: QL 613.
 Turbellaria: QL 391.T 9.
 Turtles: QL 666.C 5.
 Twilight: QB 155.
 Tympanic membrane: QL 948; QM 507.
 Typhoid fever, bacteriology: QR 201.T 9.
 Typhoons: QC 948.

U

Ultra-violet spectrum: QC 459.
 Ungulata: QL 737.U 5.
 Fossil: QE 882.U 2-8.
 U. S. Coast and Geodetic Survey: QB 296.
 U. S. Geological Survey: QE 75.
 U. S. National Museum: Q 11.U.
 Universal algebra: QA 251-265.
 Universe
 Destruction: QB 991.
 Origin: QB 981.
 Uranium compounds
 Chemistry: QD 181.U 7.
 Mineralogy: QE 389.
 Radioactivity: QC 721.
 Uranography: QB 63.
 Uranus: QB 387, 681.
 Satellites: QB 406.
 Urinary organs: QL 872; QM 401-411.
 Urine: QP 211.
 Uterus: QL 881; QM 421; QP 265.

V

Vagina: QM 421.
 Vapor, aqueous: QC 915-917.
 Vapor densities: QD 533.
 Vapors, saturated: QC 304.
 Variable stars: QB 835-841.
 Spectra: QB 895.
 Variation of latitude: QB 237.
 Variation, biology: QH 401-411.
 Variations, calculus of: QA 315-316.
 Vascular system: QL 835-841; QM 181-
 197.
 Vector analysis: QA 255-261.
 Vegetable anatomy: QK 671-705.
 Vegetable cell and tissues: QK 725.
 Vegetable morphology: QK 641-662.

Vegetable physiology: QK 711-899.
 Veins, anatomy: QL 835; QM 191.
 Veins, geology: QE 611.
 Velocity of light: QC 407.
 Velocity of sound: QC 233.
 Venom
 Secretion: QP 235.
 Physiological effect: QP 941.
 Venus: QB 372, 621.
 Transit: QB 509-513.
 Vermes: QL 386-394.
 Vertebral column: QM 111.
 Vertebrates: QL 605-607.
 Fossil: QE 841.
 Vertical circle: QB 103.
 Vesuvius: QE 523.V5.
 Vibrations: QC 231.
 Gases in tubes, etc.: QC 241.
 Strings, rods, membranes, plates:
 QC 235.
 Vines, botany: QK 482.
 Vireos: QL 696.P2.
 Viscosity: QC 189.
 Viscous fluids, hydrodynamics: QA 929.
 Vision: QP 475-495.
 Visual illusions: QP 495.
 Visual space perception: QP 491.
 Vivisection: QP 45.
 Vocal organs, anatomy: QL 853; QM 255.
 Voice: QL 765; QP 306.
 Volcanic rocks: QE 461.
 Volcanoes: QE 521-529.
 Volition: QP 405.
 Voltaic arc: QC 705.
 Voltaic cell: QC 603.
 Voltmeter: QC 544.V9.
 Volume measurement: QC 104.
 Volumes of surfaces: QA 636.
 Volumetric analysis: QD 111.
 Vortex motion: QA 925; QC 159.
 Vortex theory of matter: QC 173.
 Vowel sounds: QC 246.
 Voyages (*see* Expeditions and voyages)
 Vultures: QL 696.A2.

W

Wagtails: QL 696.P2.
 Walrus: QL 737.P6.
 Warblers: QL 696.P2.
 Wasps: QL 568.V5.
 Water
 Bacteriological examination: QR 105.
 Chemical analysis: QD 142.

